



00055474

Fx 20

0

594

God/Lan

55474

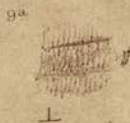
594

55474

ca



Fr - G - 20



KALIELLA

Mach

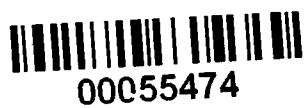


PLATE II.

[Part I.—*February* 1882.]

Fig. 1. *KALIELLA BARRAKPORENSIS*, Pfr., = *SIVALENSIS*, Hutton, var. Mussoorie, N.W. Himalaya.

2. — *CHERRAENSIS*, G.-A. Teria Ghat, Khasi Hills.
3. — *MUNIPURENSIS*, G.-A. Manipur.
4. — *JAINTIACA*, G.-A. Marangsip Peak, Jaintia Hills.
5. — *COSTULATA*, G.-A. Tanir Ridge, Daffa Hills, north of Assam valley.
6. — *SUBCOSTULATA*, G.-A. North Khasi Hills.
7. — *PERAKENSIS*, G.-A. Perak, Malay Peninsula.
8. — *FASTIGIATA*, Hutton. Mussoorie, N.W. Himalaya.
9. — *ELONGATA*, G.-A. Raliang, N. Jaintia Hills.
10. — *GRATIOSA*, G.-A. Kopamedza Peak, Anghami Naga Hills.
11. — *NAGAENSIS*, G.-A. Kopamedza Peak, Anghami Naga Hills.
12. — *TERIAENSIS*, G.-A. Teria Ghat, base of Khasi Hills.



PLATE III.

[Part I.—*February* 1882.]

Fig. 1. MICROCYSTINA RINKII, Mörch, $\times 8$.

- 1 a. — — — : sculpture, $\times 50$.
2. — — — : columellar margin, $\times 20$.
3. — — — : part of mantle, $\times 8$. *r.d.l.*, right dorsal lobe ; *l.d.l.*, left dorsal lobe.
4. — — — : extremity of foot, $\times 8$. From spirit-specimen.
5. — — — : generative organs. *P.*, male organ ; *Sp.*, spermatheca ; *vd.*, vas deferens ; *D.*, dart-sac.
6. — — — : jaw, $\times 50$.
7. — — — : teeth of the radula, central, median, and lateral, $\times 1210$.
- 7 a. — — — : ditto, ditto, $\times 360$.
8. — — — WARNEFORDI, n. sp., $\times 7$.
- 8 a. — — — : sculpture, $\times 50$.
9. — — — MOERCHIANA, n. sp., $\times 4$.
- 9 a. — — — : sculpture, $\times 50$.
10. — — — CRYPTOMPHALUS, n. sp., $\times 7$.
- 10 a. — — — : sculpture, $\times 50$.
- 10 b. — — — : columellar margin, $\times 20$.
11. — — — HARRIETENSIS, n. sp., $\times 8$.
- 11 a. — — — : sculpture, $\times 50$.



PLATE IV.

[Part I.—*February* 1882.]

- Fig. 1. Animal of *Cryptosoma præstans*, Gould, from nature, nat. size. Copied from an original drawing made by native artist, under the superintendence of the late Dr. F. Stoliczka.
2. Animal (enlarged), from spirit-specimen, viewed from right side. Shell removed, showing the mantle and its lobes.
 3. Ditto, left side.
 4. Ditto, posterior side, viewed from above, showing the junction of the shell-lobes.
 5. Ditto, side view.
 6. Anterior portion, underside of foot, showing the segmented pallial margin.
 7. Side view of extremity of foot.
 8. Generative organs.
 9. Ditto, second specimen.
 10. Male organ, showing the cæcum or kalk-sac.
 11. Jaw, $\times 20$.
 12. Teeth of lingual ribbon, $\times 360$.
 - 12 *a*. Laterals, about the 100th from the central tooth.
 - 12 *b*. Outermost laterals.



PLATE V.

[Part II.—*July* 1882.]

- Fig. 1. *KALIELLA ANIMULA*, n. sp., $\times 7$. Khasi Hills.
2. — *LHOTAENSIS*, n. sp., $\times 7$. Lhota-Naga Hills.
- 2*a*. — — ; sculpture, $\times 50$.
3. — *BARRAKPORENSIS*, Pfr., $\times 7$. Madagascar.
4. — *BULLULA*, Hutton, $\times 7$. North side Nag-Tiba range.
5. — — , $\times 7$, small var. Kumaon, N.W. Himalaya.
- 6, 6*a*. — *NANA*, Hutton, $\times 7$. Mussoorie, N.W. Himalaya.
7. *KALIELLA RESINULA*, juv., n. sp., $\times 7$. Teria Ghat, Khasi Hills.
8. — *RESINULA*, n. sp., $\times 7$. Khasi Hills.
9. — *SIKKIMENSIS*, Nev. MS., $\times 7$. Sikkim.
- 10, 10*a*. — *FLATURA*, n. sp., $\times 7$. Manipur.
11. Teeth of the radula of *KALIELLA BARRAKPORENSIS*, Pfr., from a specimen from Barisal, Lower Bengal: central and twelve laterals. 11*a*. Outermost laterals, $\times 1250$.



THE
MUSEUM
OF THE
BRITISH
MUSEUM
OF NATURAL
HISTORY

PLATE VI.

[Part II.—*July* 1882.]

- Fig. 1. ANADENUS ALTIVAGUS, Theob.: animal, side view, nat. size. Spirit-specimen. Simla.
2. Ditto: respiratory orifice, $\times 4$.
 3. Ditto: ditto, with the anal aperture (*An.Ap.*) adjacent, $\times 4$.
 4. Ditto: the generative aperture, $\times 4$. Portion protruding showing the spines (*vide* Plate VII.).
 5. Ditto: the jaw, $\times 7$.
 6. Ditto: teeth of radula, $\times 360$. 6 *a*, 6 *b*. The outermost laterals.
 7. Ditto: the generative organs, $\times 1\frac{1}{2}$. *o.t.*, ovotestis; *h.d.*, hermaphrodite duct; *Al.Gld.*, albumen-gland; *ov.*, oviduct; *v.d.*, vas deferens; *P.*, male organ, with (*r.m.*) retractor muscle; *Sp.*, spermatheca.

1 = nat size.



5 x 7



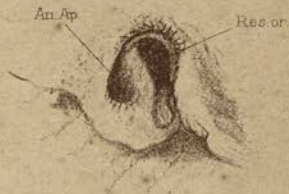
2 x 4



4 x 4

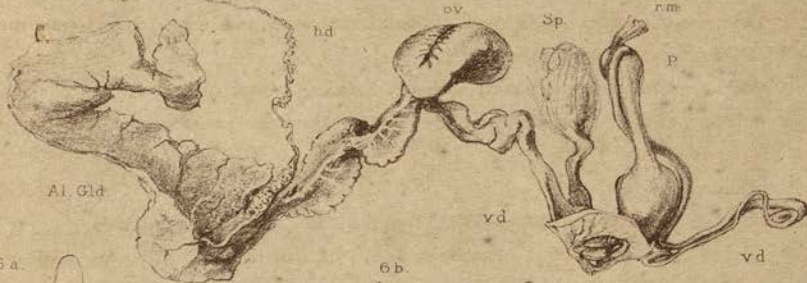


3 x 4



et.

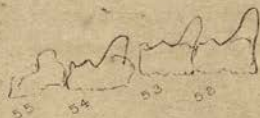
7 x 17.



6a.



6b.



6 x 360



PLATE VII.

[Part II.—*July* 1882.]

- Fig. 1. *ANADENUS ALTIVAGUS*, Theob. : shell, $\times 2$. Simla.
2. Ditto, nat. size. = *giganteus*, Heynemann ; from his drawing, Taf. i. fig. 1 *g*.
3. *ANADENUS SCHLAGINTWEITI*, Heynemann, nat. size ; from his drawing, Taf. i. fig. 2 *e*.
4. Portion of back of *A. giganteus*, Heynemann ; from his drawing, Taf. i. fig. 1 *h*, &c.
5. *ANADENUS ALTIVAGUS*, Theob. Simla. View of heart and renal organ, seen from below, showing position of the different muscle-attachments. *M.f.*, Mantle, frontal edge ; *M.l.*, mantle, left side ; *R.*, renal organ surrounding the ventricle ; *i.*, intestine ; *r.m. T., P., & O.*, retractor muscle of eye-tentacles, penis, and odontophore respectively ; *Res.Or.*, position of respiratory orifice.
6. The generative aperture cut open on the frontal side to expose the dart-sac, with its numerous spines and (*a*) the perforated shield ; *b*, spines attached to the shield at its upper margin ; *c*, larger and stronger spines attached to the posterior upper part of the sac ; *d*, row of short spines extending to the generative aperture ; *e*, outer integument of the animal ; *e'*, muscular sac ; *f*, the aperture into the vagina and spermatheca below this and inclining upwards to the left (*vide* fig. 7, Plate VI.) ; *v.d.*, portion of vas deferens.
- 6 *a*. Upper portion of male organ (*P*), showing the termination of the vas deferens within the swollen portion where the retractor muscle is given off.
- 6 *b*. Diagrammatic vertical section of fig. 6, viewed from the side.
- 6 *c*. Horizontal section of same.
7. *ANADENUS JERDONI*, n. sp., nat. size : spirit-specimen. Kashmir.

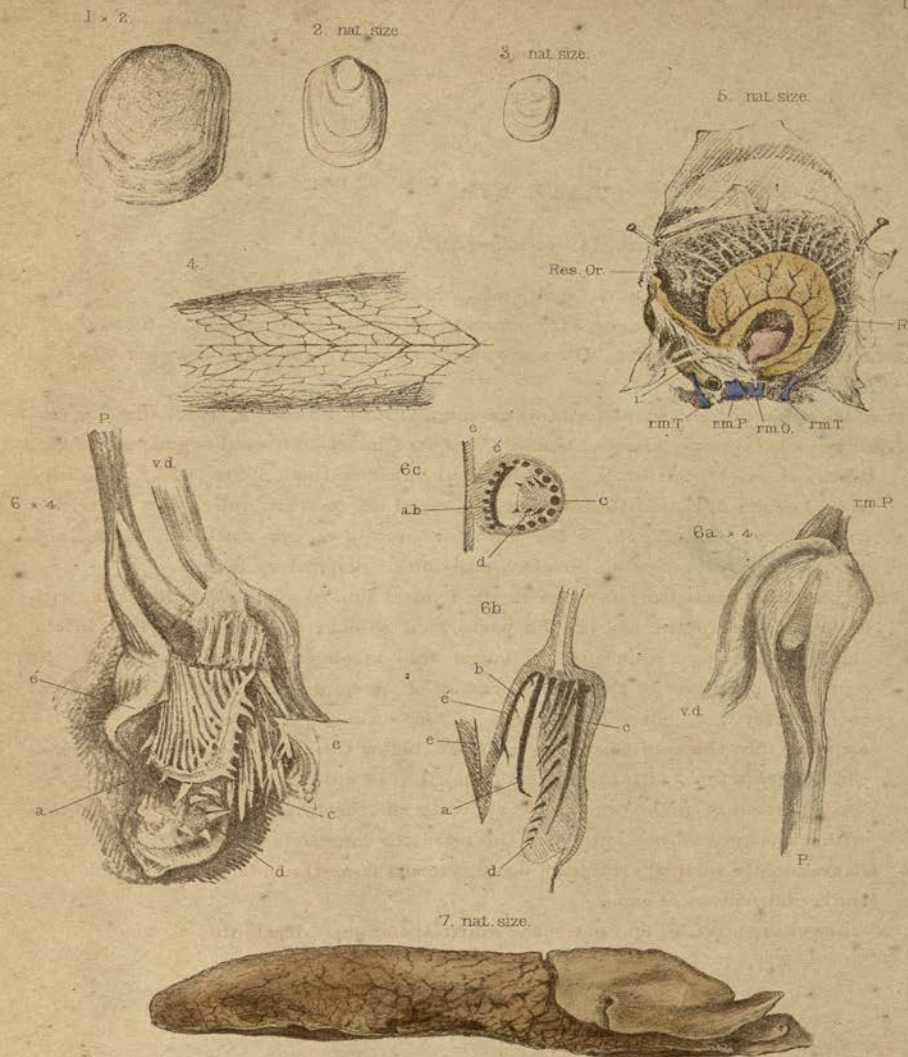


PLATE VIII.

[Part II.—*July* 1882.]

Fig. 1. *SITALA INFULA*, Benson, $\times 4$. Calcutta.

1*a*. Ditto: sculpture of last whorl, $\times 180$. 1*b*. Sculpture of the apical whorls, $\times 180$.

1*c*. Ditto: animal, $\times 2$. From drawing by F. Stoliczka.

1*d*. Ditto: jaw, enlarged. From drawing by F. Stoliczka.

1*e*. Ditto: teeth of radula. From drawing by F. Stoliczka.

1*f*. Ditto: generative organs, much magnified. 1*g*. Showing enlargement of oviduct (*a*). From drawing by F. Stoliczka.

2. *SITALA ATTEGIA*, Bs., $\times 4$. From Moulmain, Tenasserim.

2*a*. Ditto: sculpture of apical whorls, $\times 180$. 2*b*. Sculpture of the last whorl, $\times 180$.

2*c*. Ditto: right and left shell and dorsal lobes of the mantle, enlarged. From drawing by F. Stoliczka.

2*d*. Ditto: jaw. From drawing by F. Stoliczka.

2*e*. Ditto: teeth of radula.

2*f*. Ditto: generative organs, much enlarged.

3. *SITALA ATTEGIA*, Bs., $\times 4$. Prome, Pegu.

4. — *CULMEN*, W. Blf., $\times 4$. Pegu.



PLATE IX.

[Part II.—*July* 1882.]

- Fig. 1, 1 *a*. *SAGDINELLA DIDRICHSENII*, Mörch, $\times 7$. Nicobar.
2. *SITALA RIMICOLA*, Bs., $\times 7$. Mussoorie, N.W. Himalaya.
2 *a*. Ditto : sculpture of last whorl, $\times 50$.
3. *SITALA RIMICOLA*, var., Bs., $\times 7$. Darjiling, E. Himalaya.
3 *a*. Ditto : sculpture, $\times 50$.
4, 4 *a*. *SITALA RIMICOLA*, var., $\times 7$. Khasi Hills.
4 *b*'. Ditto, $\times 4$, viewed from below. 4 *c*. Ditto, nat. size.
5, 5 *a*. *SITALA INJUSSA*, W. & H. Blf., $\times 7$. Nilghiri Hills.
5 *b*. Ditto : sculpture, $\times 50$.
6. *SITALA MONONEMA*, Bs., $\times 4$. Ceylon.
7. — *SRIMANI*, G.-A., $\times 7$. Munipur.
8. — *ARX*, Bs., $\times 4$. Tenasserim.
9, 9 *a*. — ? *TERTIANA*, W. & H. Blf., $\times 12$. Nilghiri Hills.

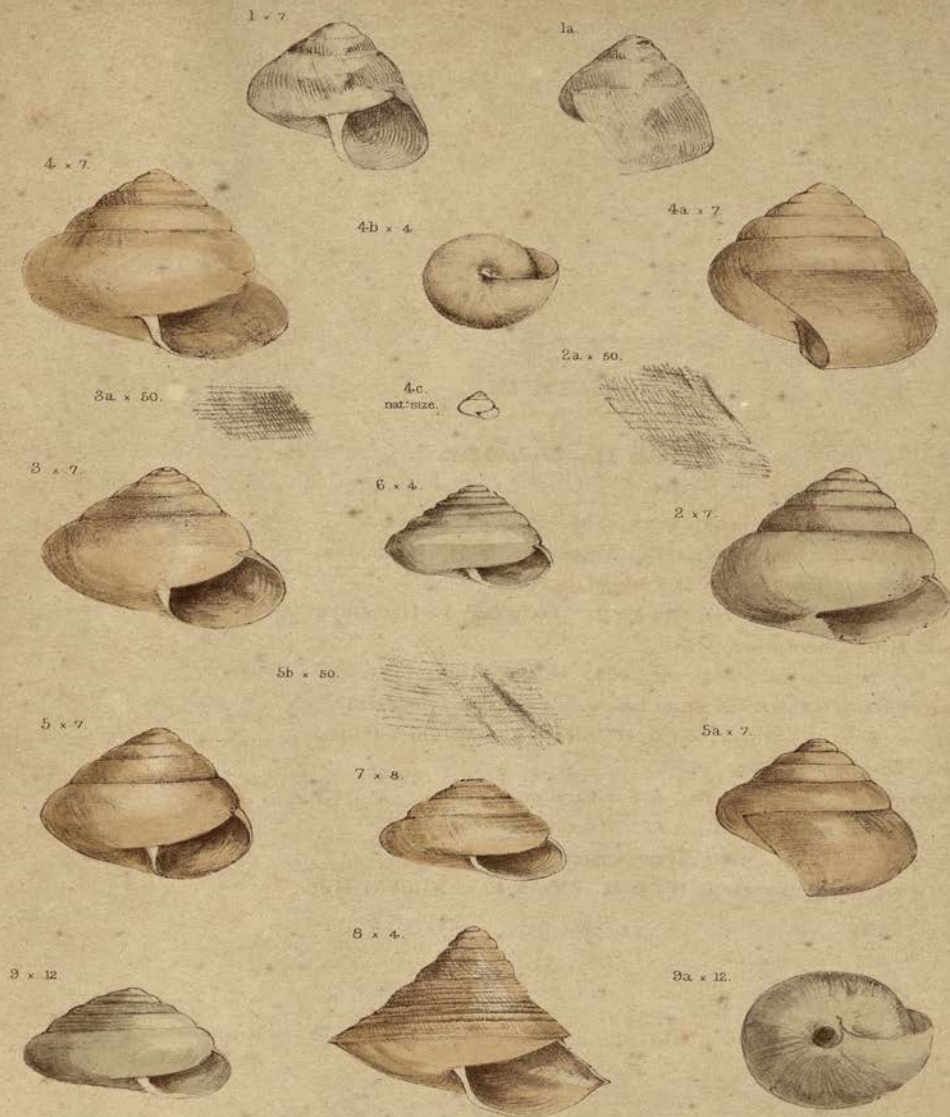


PLATE X.

[Part II.—*July* 1882.]

- Fig. 1. *SITALA GRATULATOR*, W. Blf., $\times 4$. Thayetmyo, Pegu.
1 *a*, 1 *b*. Ditto, showing form of the columellar margin, $\times 7$.
2. *SITALA CONFINIS*, W. Blf., $\times 4$. Thayetmyo, Pegu.
3. — *PALMARIA*, Bs., $\times 4$. Mysore.
4. — *PHULONGENSIS*, G.-A., $\times 7$. N. Cachar.
5. — *GROMATICA*, G.-A., $\times 7$. Manipur.
5 *a*. Ditto: sculpture, $\times 50$.
6. *SITALA GROMATICA*, var., $\times 7$. 6 *a*. Sculpture. Khasi.
7. — *HAROLDI*, G.-A., $\times 7$. 7 *a*. Sculpture, $\times 50$. Andamans.
8. — *GROMATICA*, juv., $\times 7$. North Cachar Hills.
9. — *LIMATA*, $\times 12$. 9 *a*, $\times 8$. Pegu.
10. — *TRICARINATA*, W. & H. Blf., $\times 20$. Nilghiri Hills.
11, 11 *a*. — *SUBBILIRATA*, G.-A., Nev. MS., $\times 12$. Little Brother Andaman.
12. Ditto, var., $\times 12$. Batte Malve Island, Nicobars.

1a x 7.



1 x 4.



1b x 7.



2 x 4.



4a x 50.



3 x



5a x 50.



4 x 7.



7a x 50.



5 x 7.



6 x 7.



7 x 7.



9 x 12.



9a x 8.



10 x 20.



8 x



11 x 12.



11a x 12.



12 x 12.



SITALA.

Macchire & Macdonald, imp.

PLATE XI.

[Part II.—*July* 1882.]

- Fig. 1. Animal of *HYALIMAX* (JARAVA) *ANDAMANICA*, from spirit-specimen, right side, $\times 4$.
2. Ditto, viewed from the left side.
 3. Ditto, right side, showing the position of the respiratory and anal orifices.
 - 4, 4 *a*. Ditto : shell, $\times 8$ and natural size.
 5. Ditto : view from below, $\times 4$. *A*, anal aperture ; *V*, heart ; *Res.or.*, respiratory aperture ; *r.m.T.*, retractor-muscle tentacles ; *r.m.B.*, ditto, buccal mass.
 6. Ditto : much enlarged view of the buccal mass, showing the form of its posterior end. *s*, salivary-gland duct.
 7. Ditto : jaw, $\times 20$.
 8. Ditto : central teeth of the radula, $\times 1250$.
 9. Ditto : generative organs, $\times 8$.
 10. Shell of *HYALIMAX PERLUCIDUS*, Quoy and Gaimard, from Mauritius.

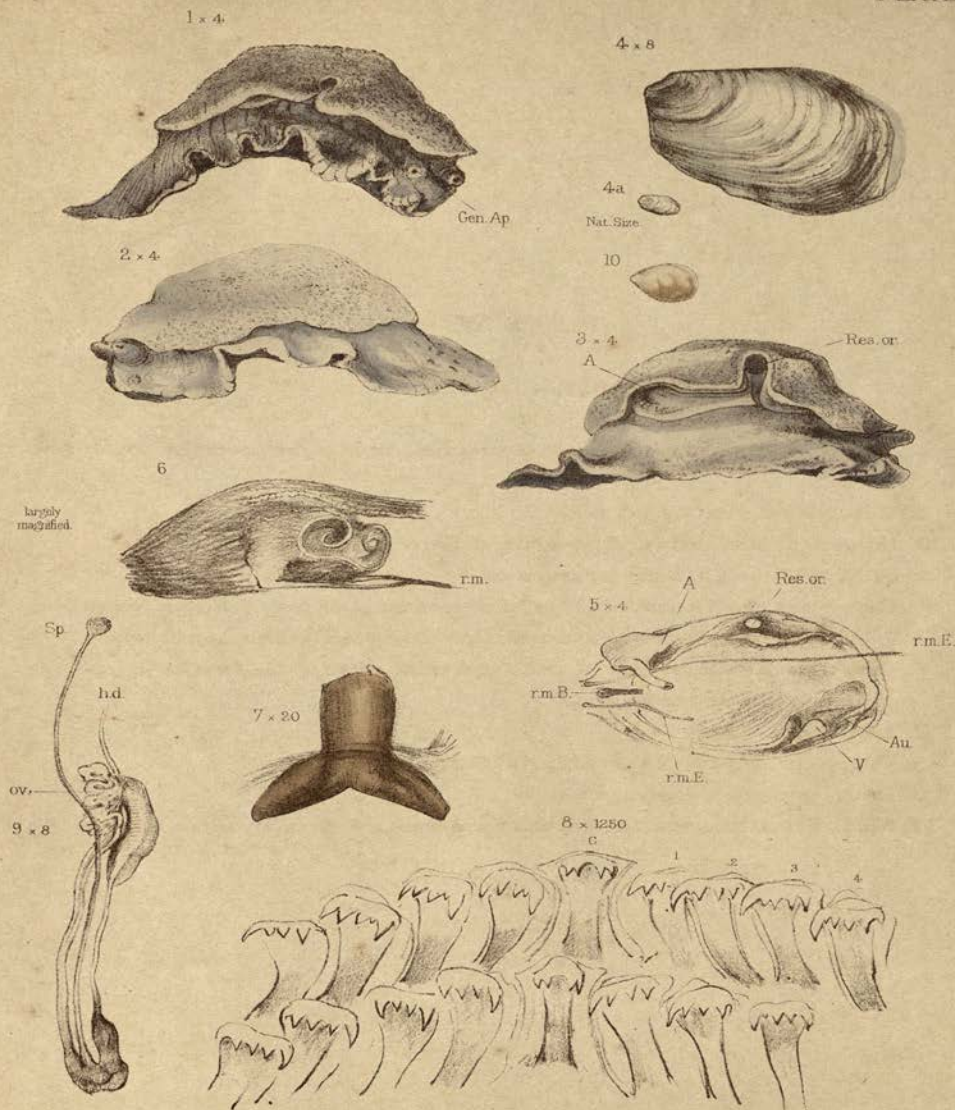


PLATE XII.

[Part II.—*July* 1882.]

- Fig. 1. *GEOMALACUS MACULOSUS*, Allman: side view of extremity of foot, with mucous gland, from spirit-specimen. *a*, view from behind, ditto.
2. Ditto: shell, $\times 7$.
 3. Ditto: jaw, $\times 20$.
 4. Ditto: teeth of radula, $\times 360$. 4 *a*. 12th to 18th; 4 *b*. Outermost laterals.
 5. Ditto: generative organs, $\times 2$.
 6. Ditto: ditto, portion of, from second specimen. Male organ.
 7. Ditto: the basal portion of male organ, laid open. *Gen. Ap.*, position of generative aperture; the external opening is on the other side.
 8. Ditto: position of renal organ, heart, and the retractor muscles, viewed from below, $\times 3$.
 9. *ARION ATER*. Reigate. Position of above organs, similar view, $\times 2$.
 10. *LIMAX AGRESTIS*, Müller: ditto, ditto, $\times 3$. *Mf.*, mantle, frontal edge; *ML.*, mantle, left margin; *r.m.O.*, *T.*, *P.*, retractor-muscle attachments of odontophore, eye-tentacle, and penis; *s*, position of apex of shell.

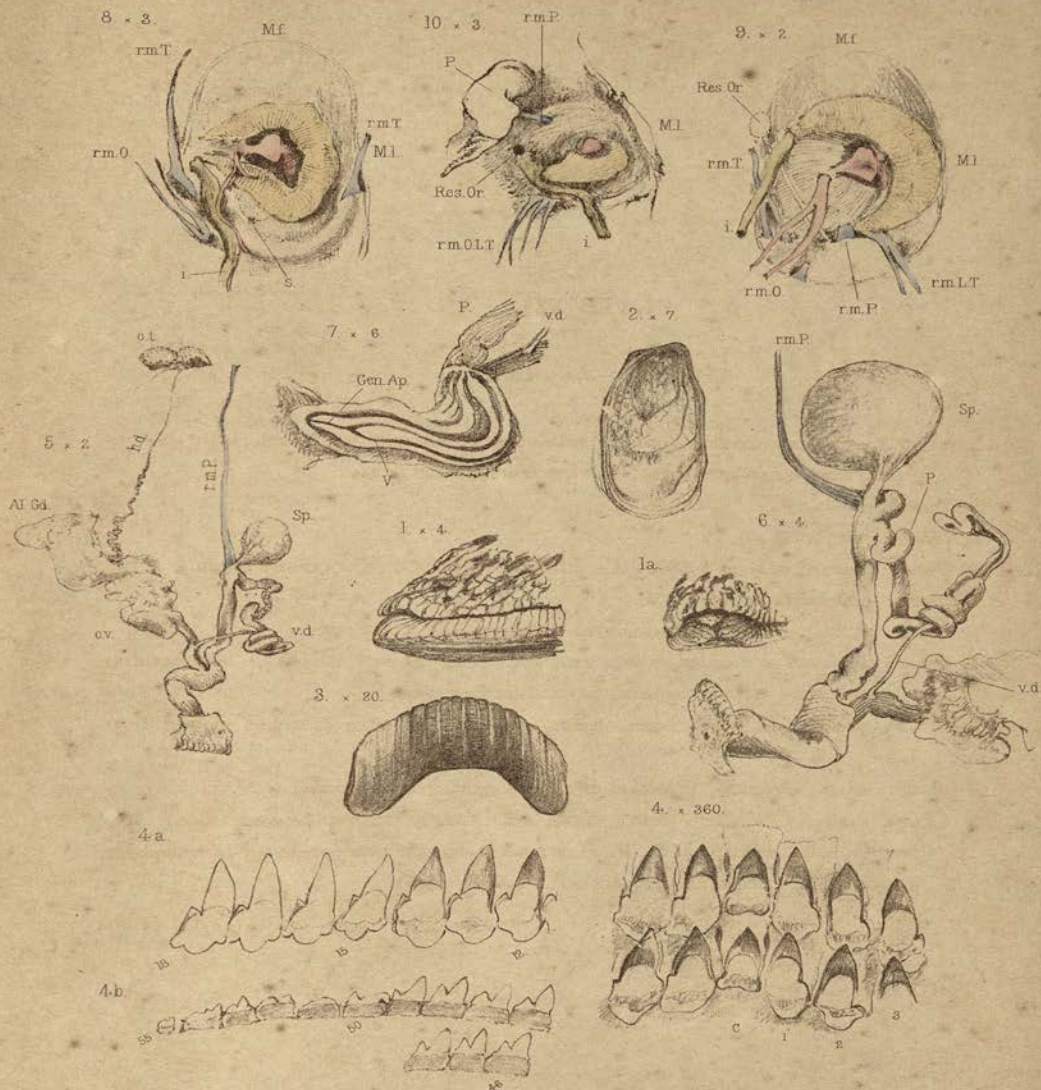


PLATE XIII.

[Part III.—*January* 1883.]

- Fig. 1, 1 *a*. SITALA INTONSA, G.-A., $\times$ 7. Khasi Hills.
1 *b*. Ditto: sculpture, $\times$ 50.
2. SITALA CRENICINCTA, G.-A., $\times$ 12. Khasi Hills.
3. Ditto, $\times$ 7.
4, 4 *a*, 4 *b*. SITALA RECONDITA, G.-A., $\times$ 7. Raliang, Jaintia Hills.
4 *c*. Ditto: sculpture, much enlarged.
5. SITALA UVIDA, G.-A., $\times$ 7. Teria Ghat, Khasi Hills.
6. —? NEVILLI, G.-A., $\times$ 4. Darjiling.

1 x 7



3 x 7



2 x 12



1 b x 50



1 a x 7



4 a x 7



4 x 7



4 b x 12



5 x 7



8 x 4



4 c



5 a x 50



PLATE XIV.

[Part III.—*January* 1883.]

- Fig. 1. *MACROCHLAMYS POONGEE*, Theobald, $\times 4$. Moulmain, Tenasserim.
2. —? *KANDIENSIS*, Nevill, MS., $\times 7$. Kandy, Ceylon.
3. *SITALA PLACITA*, G.-A., $\times 12$. Khasi and Muniपुर.
4. *MACROCHLAMYS UMBRATICOLA*, G.-A., $\times 7$. North Cachar Hills.
4 a. Ditto : sculpture, $\times 50$.
5. *MACROCHLAMYS PERPAULA*, Benson, $\times 7$. Moulmain, Tenasserim.
6. *SITALA SUBNANA*, Nevill, MS., $\times 8$. Jessore.
7. *MACROCHLAMYS FACETA*, G.-A., $\times 12$. Daffa Hills.
8. —? *ANONÆ*, G.-A., $\times 12$. Calcutta.
9. *HELIX?* (—?) *GLOMEROSA*, G.-A., $\times 20$. Daffa Hills.
10. *MACROCHLAMYS PACATA*, G.-A., $\times 8$. Lhota Naga Hills.
11. — *ENATA*, G.-A., $\times 8$. Lhota Naga Hills.
12. — *ORIGINARIA*, G.-A., $\times 8$. Muniपुर.
13. — *SATA*, G.-A., $\times 8$. Daffa Hills.



PLATE XV.

[Part III.—*January* 1883.]

Fig. 1. KALIELLA LAILANGKOTENSIS, G.-A., $\times 7$. Khasi Hills.

1 *a*. Ditto: sculpture, $\times 50$.

2. SITALA BALLIANA, Nev. MS., $\times 7$. Ganjam.

3, 3 *a*. KALIELLA KEZAMAHENSIS, G.-A., $\times 8$. Naga Hills.

4, 4 *a*. — RUGA, G.-A., $\times 8$. Naga Hills.

5, 5 *a*. — BURRAILENSIS, G.-A., $\times 7$. Naga Hills.

5 *b*. Ditto: sculpture, $\times 50$.

6, 6 *a*. KALIELLA CONULUS, W. T. Blf., $\times 12$ and 8. North Cachar.

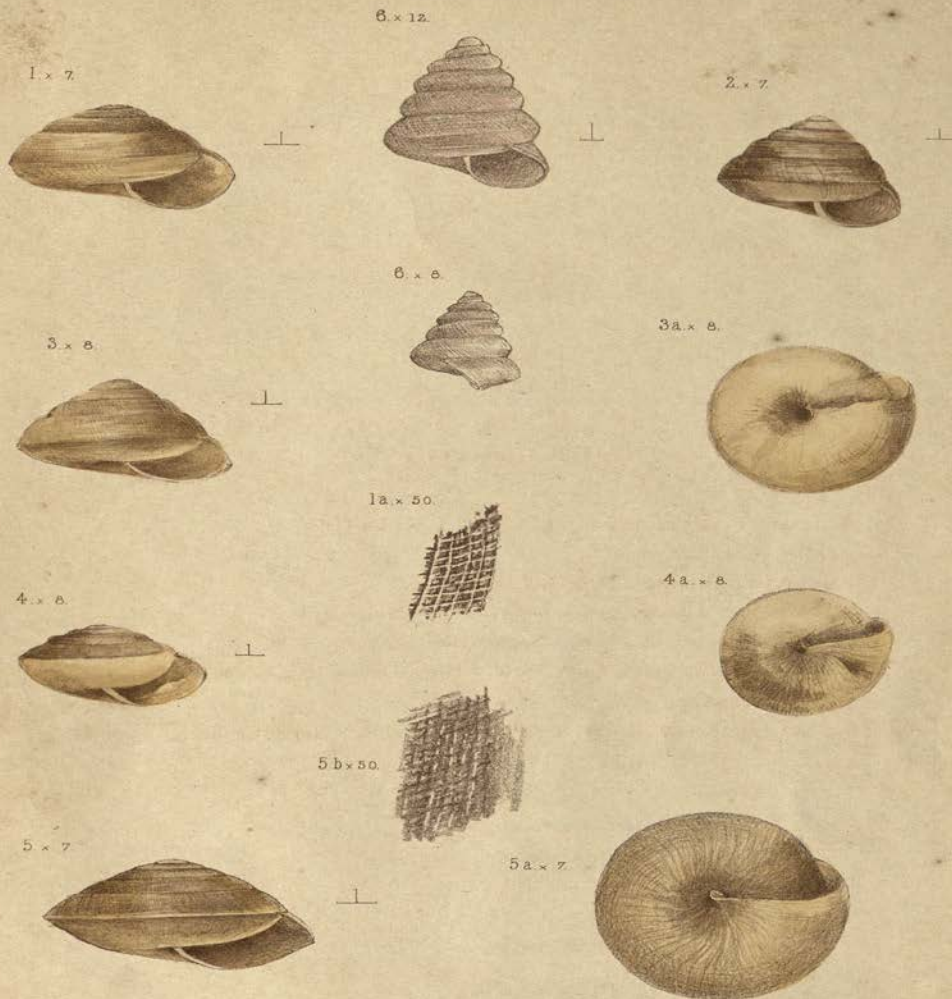


PLATE XVI.

[Part III.—*January* 1883.]

Fig. 1. *KALIELLA*? *CHENNELLI*, G.-A., $\times 7$. Lhota Naga Hills.

1 *a.* Ditto, suture between first and second whorls.

2. *KALIELLA NONGSTEINENSIS*, G.-A., $\times 12$. North Khasi Hills.

3. — *DIKRANGENSIS*, G.-A., $\times 20$. Daffa Hills.

4. — *TIRUTANA*, G.-A., $\times 24$. North Khasi.

5. Ditto, juv., $\times 24$. North Khasi.

6. *KALIELLA LEITHIANA*, G.-A., $\times 7$. Ceylon.

6 *a.* Ditto: umbilical region, $\times 12$.

6 *b.* Ditto: the keel of the last whorl, much enlarged.

7, 7 *a.* *MACROCHLAMYS*? *PLANUSCULA*, Hutt., $\times 9$. N.W. Himalaya.

8. — ? *MOLECULA*, Bs., $\times 7$. Rangoon, Pegu.

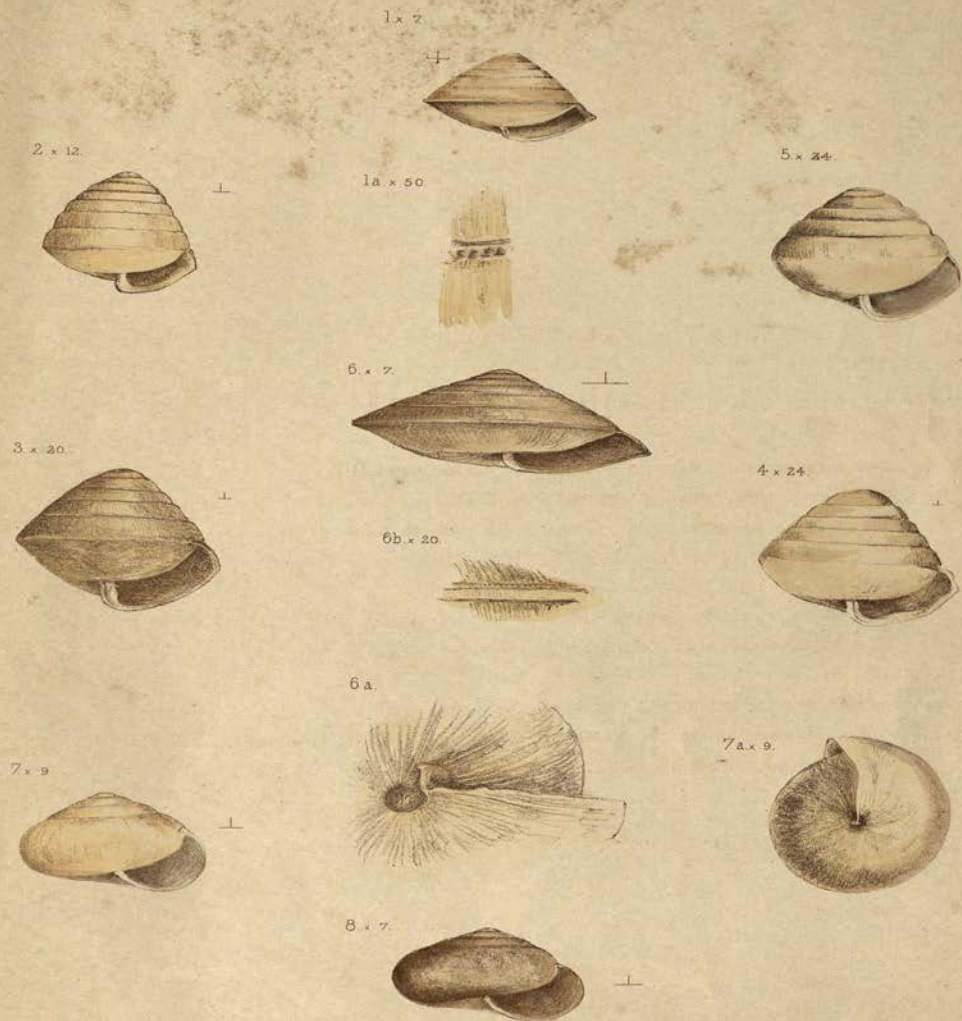


PLATE XVII.

[Part III.—*January* 1883.]

- Fig. 1. *MACROCHLAMYS LONGICAUDA*, G.-A., × 8. Khasi Hills.
2, 2 a. Ditto, var., × 8. Khasi Hills.
3. *MACROCHLAMYS NENGLOENSIS*, G.-A., × 8. Naga Hills.
4. — *LONGICAUDA*, var., × 7. S. Jaintia Hills.
5. — *NENGLOENSIS*, var., × 8. Manipur.
6. — *KOLIAENSIS*, G.-A., × 7. Assam.
7. — *ROBERTI*, G.-A., × 8. Burrañ range.
8. — *DORANI*, G.-A., × 8. Khasi Hills.
9. — *TANIRENSIS*, G.-A., × 8. Daffa Hills.
10. — *RUSTICULA*, G.-A., × 12. North Khasi Hills.
11. — (?) *DARJILINGÆNSIS*, Nevill, MS., × 20. Darjiling.

2. x 5.



1. x 5.



2a. x 5.



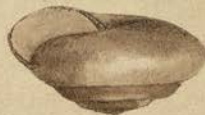
3. x 5.



6. x 7.



7. x 5.



8. x 5.



4. x 7.



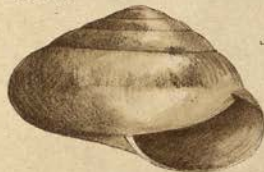
11. x 20.



9. x 5.



5. x 5.



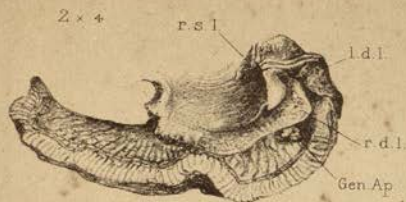
10. x 12.



PLATE XVIII.

[Part III.—*January* 1883.]

- Fig. 1. *MACROCHLAMYS INDICA*, Bs., nat. size. Calcutta. Showing position of the right shell-lobe in life, somewhat contracted.
2. Ditto, spirit-specimen : view of right side, $\times 4$, showing :—*r.s.l.*, right shell-lobe ; *r.d.l.*, *l.d.l.*, right dorsal lobe and left dorsal lobe.
3. Ditto, ditto : left side, with left shell-lobe (*l.s.l.*) and posterior termination of the left dorsal lobe (*l.d.l.*).
4. Ditto : sketch of end of the foot, from life, somewhat enlarged.
- 5, 5 *a.* Ditto, shell of, $\times 2\cdot4$.
6. Ditto : generative organs, $\times 4$: *h.d.*, hermaph. duct ; *Al.Gd.*, albumen-gland ; *o.v.*, oviduct ; *P.*, penis ; *c.r.P.*, cæcum of retractor muscle of the penis ; *c.d.*, cæcum calciferum, or kalk-sac ; *D*, the amatorial organ.
7. Ditto : jaw, $\times 20$.
- 8, 8 *a*, 8 *b*. Portion of the radula, $\times 360$; central, median, and lateral teeth.



5a x 24

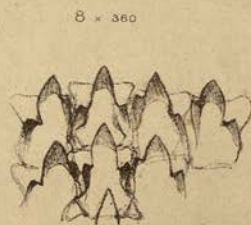
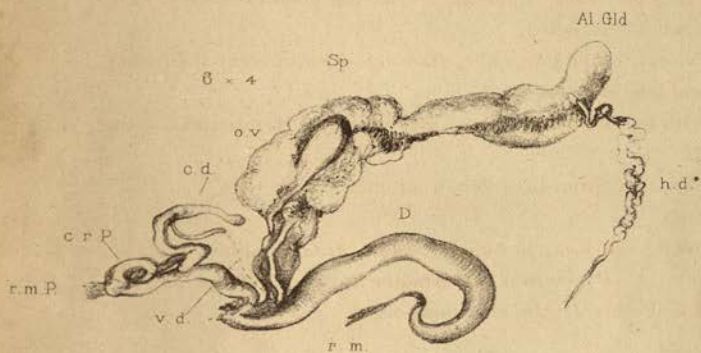


PLATE XIX.

[Part III.—*January* 1883.]

Fig. 1, 1 *a*. *MACROCHLAMYS PETROSA*, Hutton. Bhangulpur.

2. — *TUGURIUM*, Bs. Darjiling.

3, 3 *a*. — *SIKRIGULLIENSIS*?, Nevill. Calcutta.

4. — *PERPLANA*, Nevill. Parisnath.

5. — *LECYTHIS*, Bs. ? Parisnath.

6, 6 *a*. — *DECUSSATA*, Bs., *in coitu*, and to show the shell-lobes. Cherra Poongee.

7. — *HONESTA*, Gould: *r.s.l.*, *l.s.l.*, right and left shell-lobes; *r.d.l.*, *l.d.l.*, right and left dorsal lobes. Mulé-it range, Tenasserim.

7 *a*. Ditto: extremity of foot, from spirit-specimen.

7 *b*. Ditto: jaw, ditto.

These species will be described in detail in Part IV. Figures 1–5 are from drawings by a native artist, executed under the superintendence of Ferd. Stoliczka, and preserved in the Indian Museum Library, Calcutta.

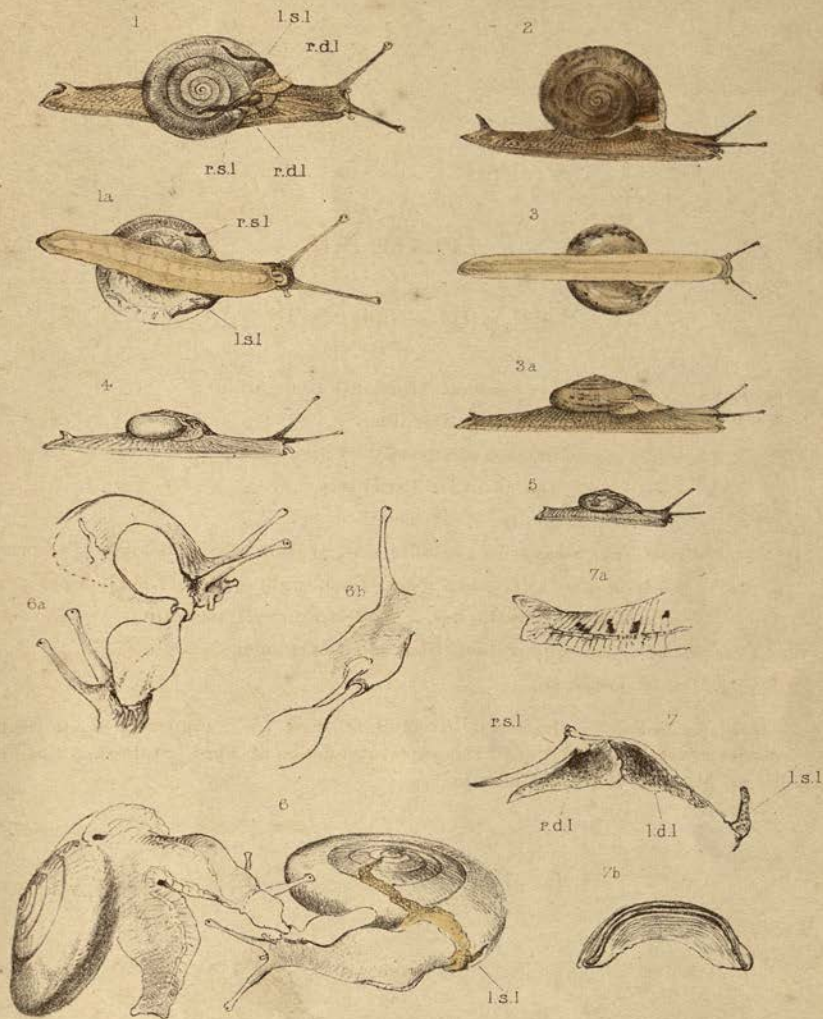
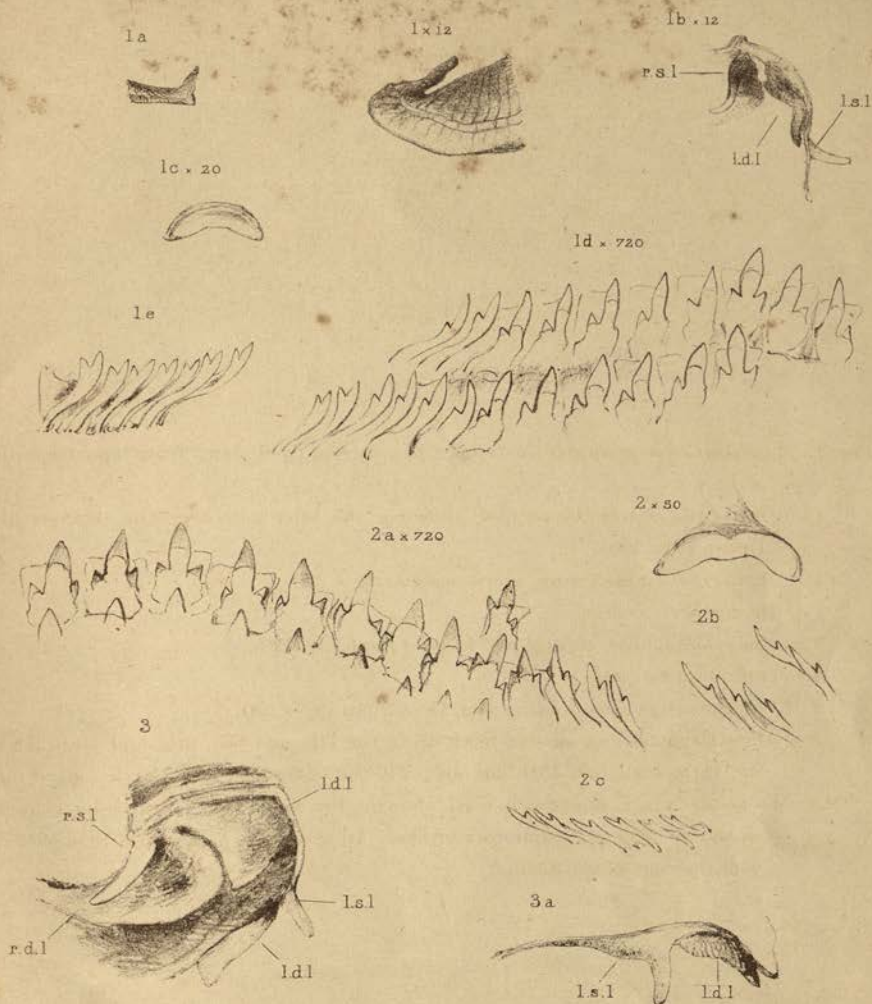


PLATE XX.

[Part III.—*January* 1883.]

- Fig. 1. *MACROCHLAMYS LONGICAUDA*, G.-A.: the extremity of foot, from spirit-specimen, $\times 12$.
- 1 *a*. Ditto: the extremity of foot, showing the long lobe over the mucous gland.
Drawn from life.
- 1 *b*. Ditto: the mantle, from spirit-specimen, $\times 12$.
- 1 *c*. Ditto: jaw, $\times 20$.
- 1 *d*. The odontophore, central and median teeth, $\times 720$.
- 1 *e*. Outermost laterals, $\times 720$.
2. *MACROCHLAMYS LAILANGKOTENSIS*, G.-A., jaw of, $\times 50$.
- 2 *a*. Ditto: central and median teeth up to the 7th, and 8th, 9th, and 10th laterals;
2 *b*, 11th, 12th, and 13th laterals; 2 *c*, the outermost laterals, $\times 720$.
3. *MACROCHLAMYS TUGURIUM*, Benson, showing the shell- and mantle-lobes: lettering as above. *Res.or.*, respiratory orifice. In 3, 3 *a*, the *l.s.l.* would turn backwards over the edge of the shell.



ZONITIDÆ

PLATE XXI.

[Part III.—*January* 1883.]

Sculpture of portion of last whorl near aperture, $\times 50$; viewed from above, the aperture directed towards the bottom of the diagram.

Fig. 1. *MACROCHLAMYS INDICA*, Bs. Calcutta.

2. — *PETROSA*, Hutton. Rajmahal.
3. — *SPLENDENS*, Hutton. Mussoorie.
4. —, near *LUBRICA*, Bs. Daffa Hills.
5. —, species undetermined. Lhota Naga.
6. — *DAFLAENSIS*, G.-A. Daffa Hills, Assam.
7. — *CASTANEO-LABIATA*, G.-A. Naga Hills.
8. — *MASURIENSIS*, G.-A. N.W. Himalaya.
9. — *SYLHETENSIS*, G.-A. Chatak.
10. — *HARDWICKII*, G.-A. Calcutta.
11. *BENSONIA MONTICOLA*, Hutton, juv. Mussoorie.
12. — ditto, = *LABIATA*, Pfr. Mussoorie.
- 13, 13 a. *MACROCHLAMYS*? *PEDINA*, Benson: first and second whorls. Bombay.
14. — *STAFFORDI*, G.-A.: ditto. Daffa Hills.
15. — *DECUSSATA*, Bs. Khasi Hills.
16. — *LONGICAUDA*, G.-A. Khasi Hills.
17. — ? *TEXTRINA*, Bs. Pegu.

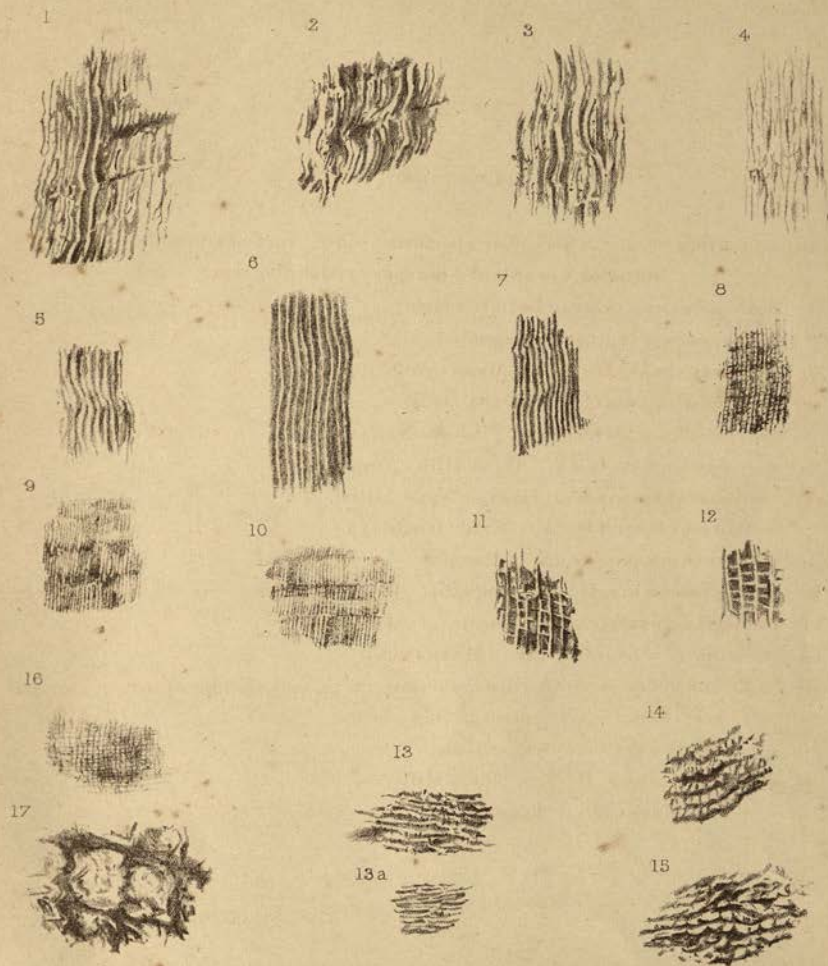
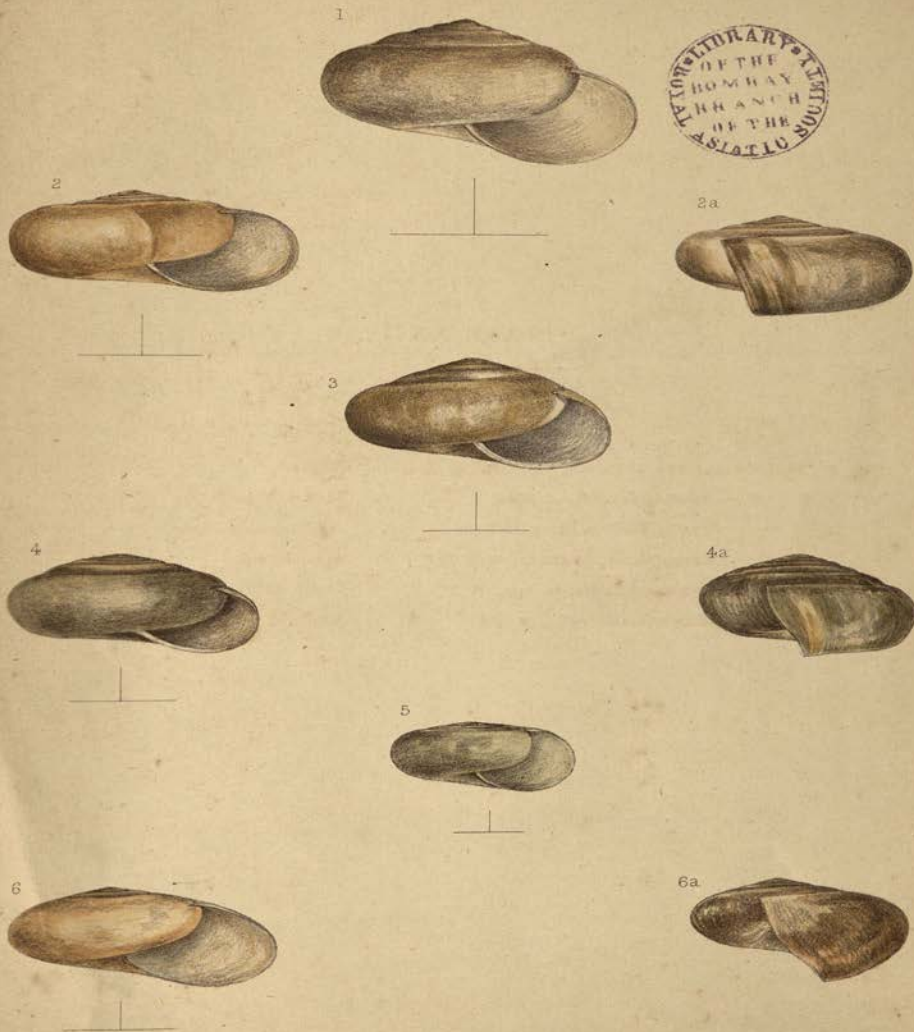


PLATE XXII.

[Part IV.—*September* 1883.]

- | | |
|--|---------------------------|
| Fig. 1. MACROCHLAMYS PETROSA, Hutton, $\times 2\cdot4$. | Rajmahal. |
| 2, 2 <i>a</i> . — PRONA, Nevill, $\times 2\cdot4$. | Mussoorie, N.W. Himalaya. |
| 3. — EXUL, Theobald, $\times 2\cdot4$. | Andaman Islands. |
| 4, 4 <i>a</i> . — SPLENDENS, Hutton, $\times 2\cdot4$. | Mussoorie. |
| 5. — SHENGORENSIS, n. sp., $\times 2\cdot4$. | Dafra Hills. |
| 6, 6 <i>a</i> . — CHOINIX, Benson, $\times 2\cdot4$. | Andamans. |



ZONITIDÆ

PLATE XXIII.

[Part IV.—*September* 1883.]

All enlarged 2·4.

- | | |
|---|-------------------|
| Fig. 1. MACROCHLAMYS HARDWICKEI, n. sp. | Calcutta. |
| 2. Ditto. | Sylhet. |
| 3. Ditto, var. POLITULUS. | Eastern Assam. |
| 4. Ditto, var. | Darrang. |
| 5. MACROCHLAMYS LHOTAENSIS, n. sp. | Lhota-Naga Hills. |
| 6, 6 a. — OPIPARUS, n. sp. | Darjiling. |

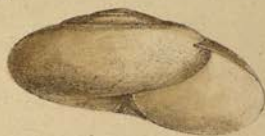
1 x 2-4.



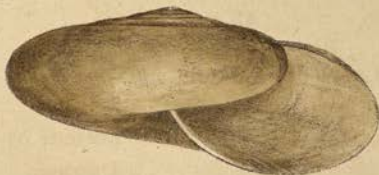
3.



4.



5.



a.



6 a.



2.



PLATE XXIV.

[Part IV.—*September* 1883.]

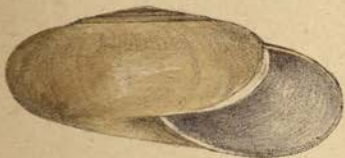
All enlarged 2·4.

- | | |
|---|----------------------------------|
| Fig. 1. MACROCHLAMYS ATRICOLOR, Godwin-Austen. | North Cachar Hills. |
| 2. Ditto, large var. | Munipur Hills. |
| 3. Ditto, small var. | Munipur Hills and Burrail range. |
| 4. Ditto, var. | Dafra Hills. |
| 5. Ditto, var. | Khakyen Hills, Upper Burmah. |
| 6. MACROCHLAMYS CACHARICA, n. sp., var. GLAUCA. | Dafra Hills. |
| 7. — LUBRICA, Bs. | Darjiling. |

2.



5.



1.



3.



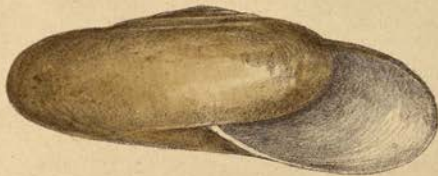
4.



6.



7.



ZONITIDÆ

PLATE XXV.

[Part IV.—*September* 1883.]



MACROCHLAMYS ATRICOLOR, G.-A. Manipur Hills.

- Fig. 1. Animal, spirit-specimen, showing mantle and shell-lobes, $\times 2.4$.
2. Ditto, viewed from right side, showing position as regards the shell, $\times 1.5$.
 3. Ditto, mantle, viewed from left side, $\times 2.4$.
 4. Entire animal, left side, $\times 2.4$.
 5. Head, viewed from right side, showing position of generative aperture, $\times 2.4$.
 6. Head, front view, showing form of mouth, $\times 4$.
 7. Extremity of foot, viewed from behind, $\times 7$.
 8. Mantle, viewed from below or inside, showing the division into two lobes.
 9. Same view of mantle in *M. INDICA*, Bs. Calcutta.
 10. Mantle of *M. INDICA*, viewed from the outside, showing the additional shell-lobe.

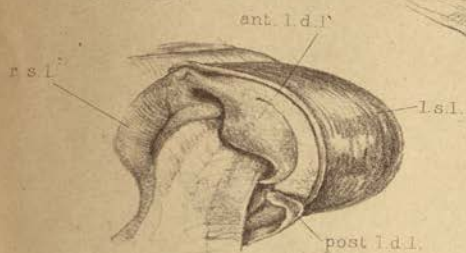
2.



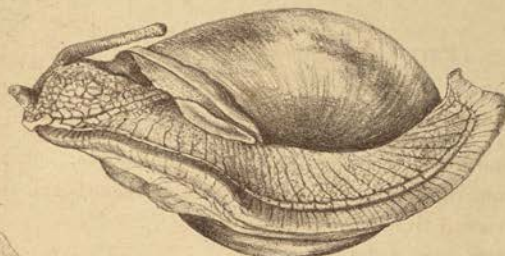
3.



1 x 24



4.



7 x 24



6 x 4



5.

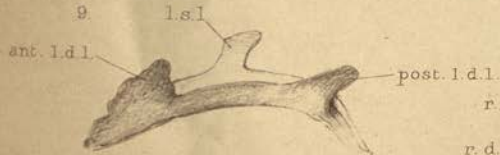


8.



Gen. Ap.

9.



10.

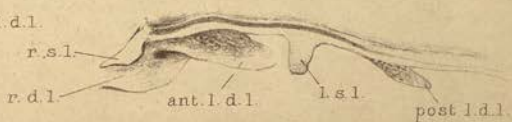
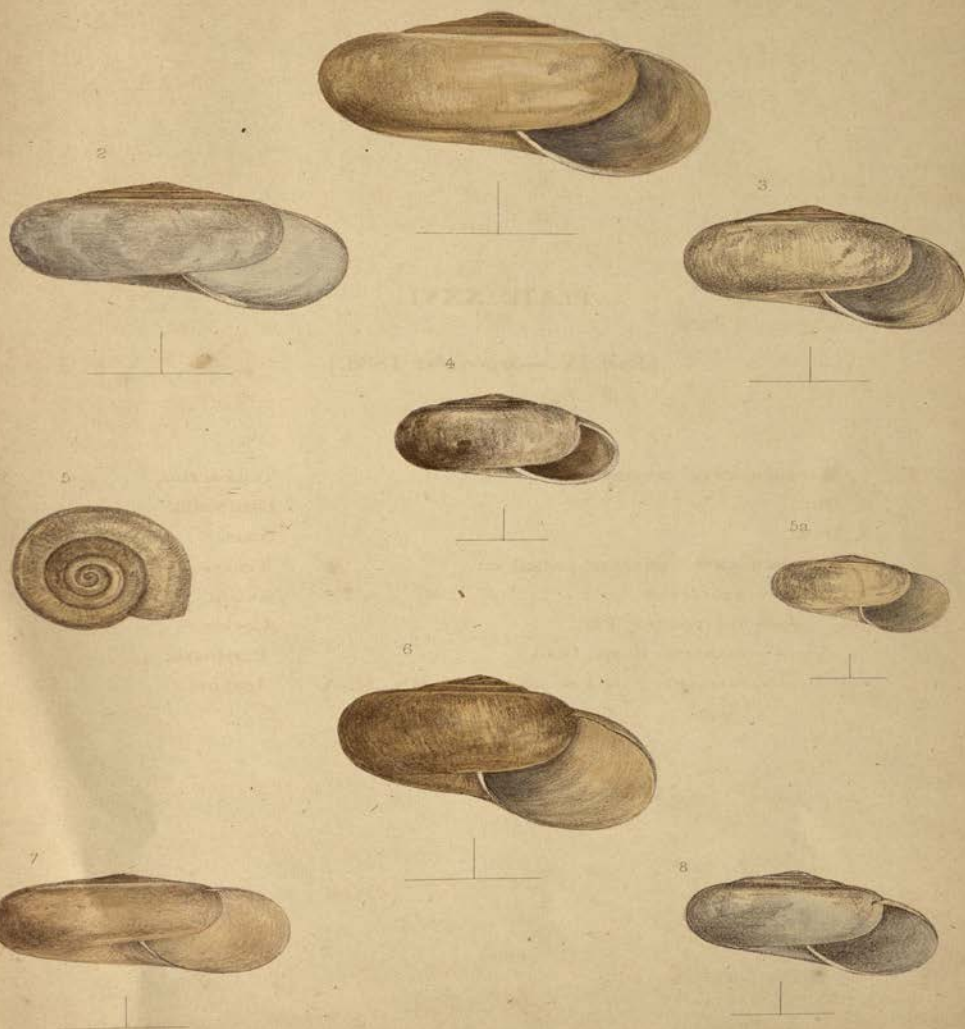


PLATE XXVI.

[Part IV.—*September* 1883.]

All enlarged 2·4.

Fig. 1. MACROCHLAMYS? RESPLENDENS, Phil.	Tenasserim.
2. Ditto.	Cambodia.
3. Ditto.	Siam.
4. MACROCHLAMYS? CONSEPTA, small var.	Tenasserim.
5, 5 a. — KOLIAENSIS.	Assam.
6. — POLITISSIMA, Pfr.	Ceylon.
7. — JAINIANA, n. sp., G.-A.	Parisnath.
8. — JAINIANA, n. sp., = <i>stricklandi</i> , MS., G.-A.	Jeypur.



ZONITIDÆ

PLATE XXVII.

[Part IV.—*September* 1883.]

(*Vide* shell of Plate XXIV. fig. 2.)

Fig. 1 *a*. *MACROCHLAMYS ATRICOLOR*, G.-A., jaw, $\times 12$. .Munipur Hills.

1 *b*. Ditto : teeth of radula, $\times 360$.

1 *c*. Ditto : salivary gland : *a*, intestine ; *c*, duct of gland.

1 *d*. Ditto : generative organs, $\times 2\cdot4$.

2. *MACROCHLAMYS CACHARICA*, n. sp., $\times 2\cdot4$. .Munipur Hills.

2 *a*. Ditto : jaw, $\times 12$.

2 *b*. Ditto : radula, $\times 360$.

2 *c*. Ditto : generative organs, $\times 4$.

3. *MACROCHLAMYS ATRICOLOR*, small var. .Kopamedza Peak, Naga Hills.

2 x 24

3 x 24



1 b x 360

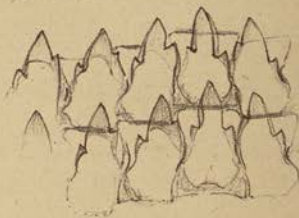


19

15



1 b x 360



1 a x 12



2 a x 12



2 b x 360

2 b x 360



20

15

10

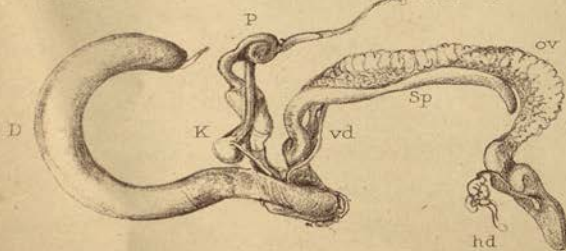


1 c

b



1 d x 24

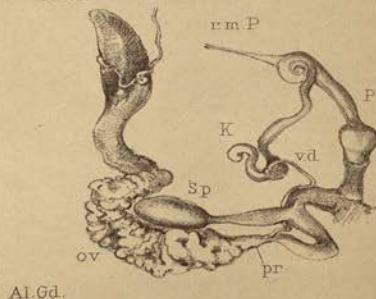


Al Gd

hd

2 c x 4

r.m. P



MACROCHLAMYS

1. atricolor.
2. cackarica.

PLATE XXVIII.

[Part IV.—*September* 1883.]

Fig. 1. *MACROCHLAMYS HARDWICKEI*, n. sp., portion of radula. Calcutta.

1 *a.* Ditto: generative organs, enlarged.

1 *b.* Ditto: male organs, much enlarged.

2. *MACROCHLAMYS JAINIANA*, n. sp. Parisnath. Portion of radula, median and lateral teeth, $\times 360$.

2 *a.* Ditto: jaw, $\times 12$.

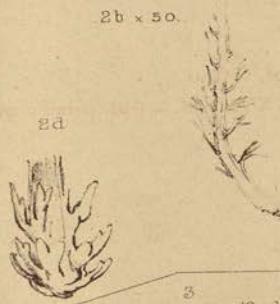
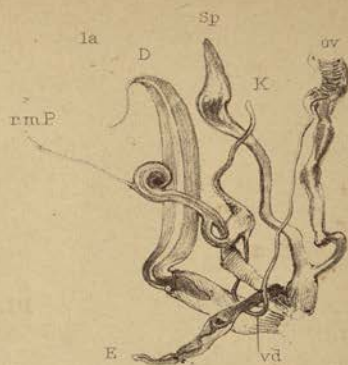
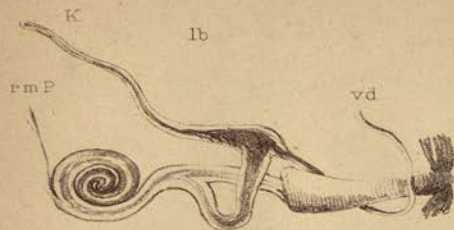
2 *b.* Ditto: portions of spermatophore, $\times 50$.

2 *c.* Ditto: ditto, $\times 180$.

2 *d.* Ditto: ditto, $\times 180$.

2 *e.* Ditto: spermatophore, posterior end of, $\times 180$.

3. *MACROCHLAMYS KOLIAËNSIS* (*vide* Plate XXVI. figs. 5, 5 *a*): portion of radula, $\times 360$.



MACROCHLAMYS

1. hardwicki
2. jainiana

PLATE XXIX.

[Part IV.—*September 1883.*]

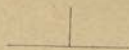
Fig. 1, 1 *a*. MACROCHLAMYS CASTANEO-LABIATA, G.-A., $\times 2\cdot4$. Manipur Hills.

2. Ditto, $\times 2\cdot4$. Asalu.
3. Ditto, $\times 2\cdot4$. Rezameh, Naga Hills.
4. Ditto: mantle and lobes of No. 1, $\times 4$.
5. Ditto: jaw, $\times 12$.
6. Ditto: central portion of radula, $\times 180$.
- 6 *a*. Ditto: an Asalu sp., $\times 340$.
- 6 *b*. Ditto: median teeth 6 to 10, $\times 340$.
- 6 *c*. Ditto: outermost laterals, $\times 340$.
7. Ditto: generative organs of No. 1, $\times 4$.

1 x 2.4.



1.a



2 x 2.4



4 x 4.

l.s.l.



3 x 2.4.



6 x 180.



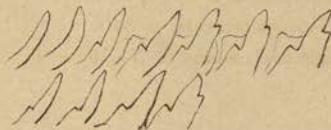
6 a x 340.



5 x 12.



6 b x 340.



6 c x 340.

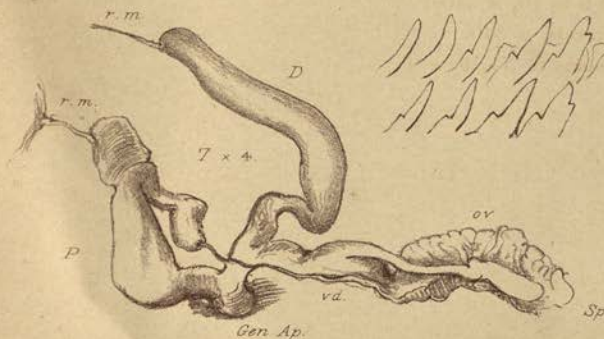
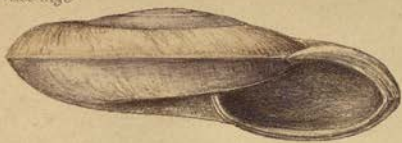


PLATE XXX.

[Part IV.—*September* 1883.]

- Fig. 1, 1 *a*. OXYTES OXYTES, Bs. Shell, natural size ; largest specimen from S.W. Khasi Hills.
- 2, 2 *a*. Ditto : usual size. Same locality.
3. Ditto : animal. Cachar. From original drawing (No. 36) by native artist in Library, Indian Museum, Calcutta.
- 3 *a*. Ditto : the mucous gland, viewed from above.
- 3 *b*. Ditto : tentacles.
4. OXYTES OROBIA, Bs., from Stoliczka's original drawing (No. 45) made by a native artist.

1 nat. size



2a



3



3a



3b



4



2



1a



PLATE XXXI.

[Part IV.—*September* 1883.]

- Fig. 1. OXYTES CYCLOPLAX, Bs., nat. size, juv. W. Bhutan Hills.
2. Ditto : animal, shell removed, viewed from right side, $\times 4$.
 3. Ditto : extremity of foot, viewed from behind, $\times 4$.
 4. Ditto : mantle-edge, as seen from left side, $\times 4$.
 5. Ditto : jaw, $\times 12$.
 6. Ditto : radula, centre teeth of, $\times 180$.
 - 6 *a*. Ditto : last median and first lateral teeth, $\times 180$.
 - 6 *b*. Ditto : outermost laterals, $\times 180$.
 7. Ditto : generative organs, $\times 4$.
 - 8, 8 *a*, 8 *b*. OXYTES CYCLOPLAX, Bs., adult shell, nat. size. Darjiling.

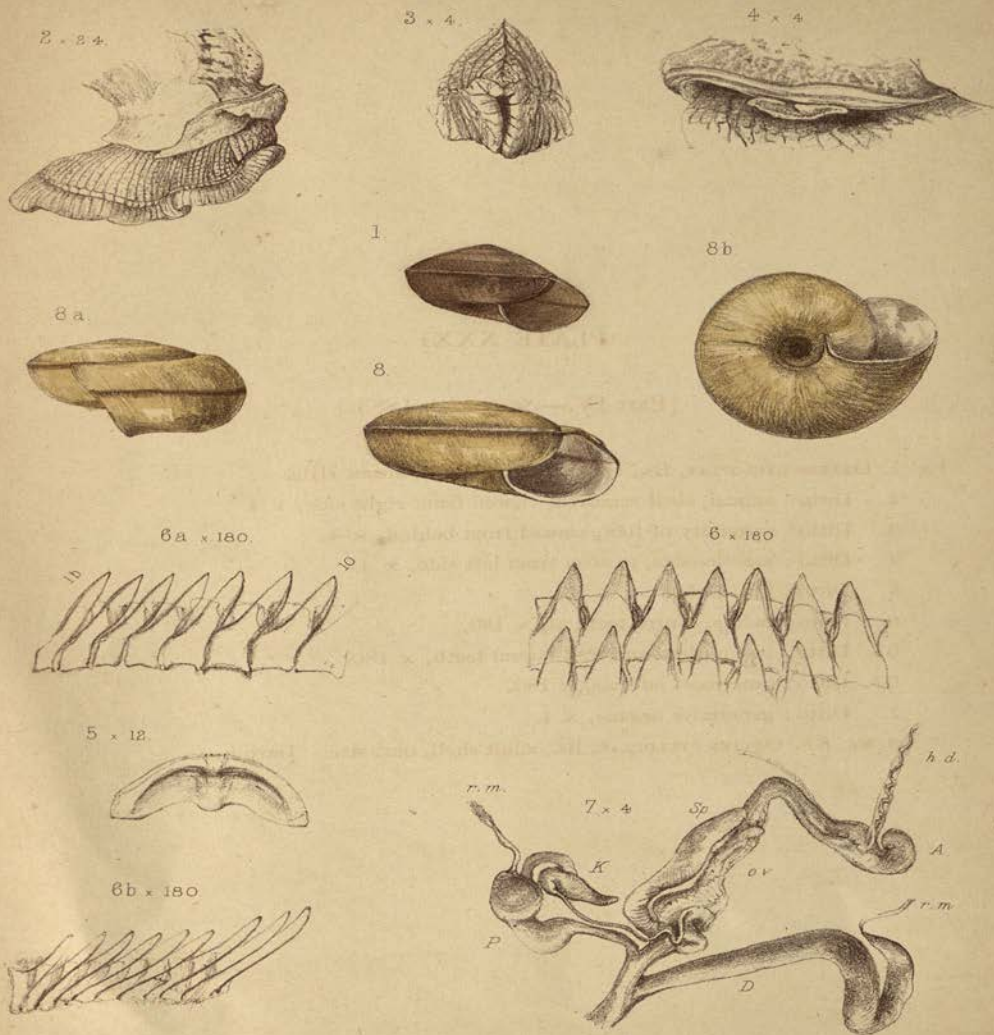




PLATE XXXII.

[Part IV.—*September* 1883.]

- Fig. 1. OXYTES OROBIA, Bs. Darjiling. Animal, from spirit-specimen, left side, with shell nearly all removed.
- 1 *a*. Ditto : right side and sole of foot.
 - 1 *b*. Ditto : the left postdorsal lobe, enlarged.
 2. Ditto : jaw.
 3. Radula, central portion, $\times 200$; 3 *a*. Ditto, newer teeth ; 3 *b*. 9th, 10th, and 11th median ; 3 *c*. 15th to 20th lateral teeth ; 3 *d*. The outermost laterals.
 4. Portion of animal in apex of shell, showing position of the hermaphrodite duct and liver-lobes.
 5. Generative organs.
 - 5 *a*. Junction of hermaphrodite duct with the albumen-gland, very much enlarged.
 - 5 *b*. Portion of male organ, showing the calc-sac and coiled cæcum of the retractor muscle.

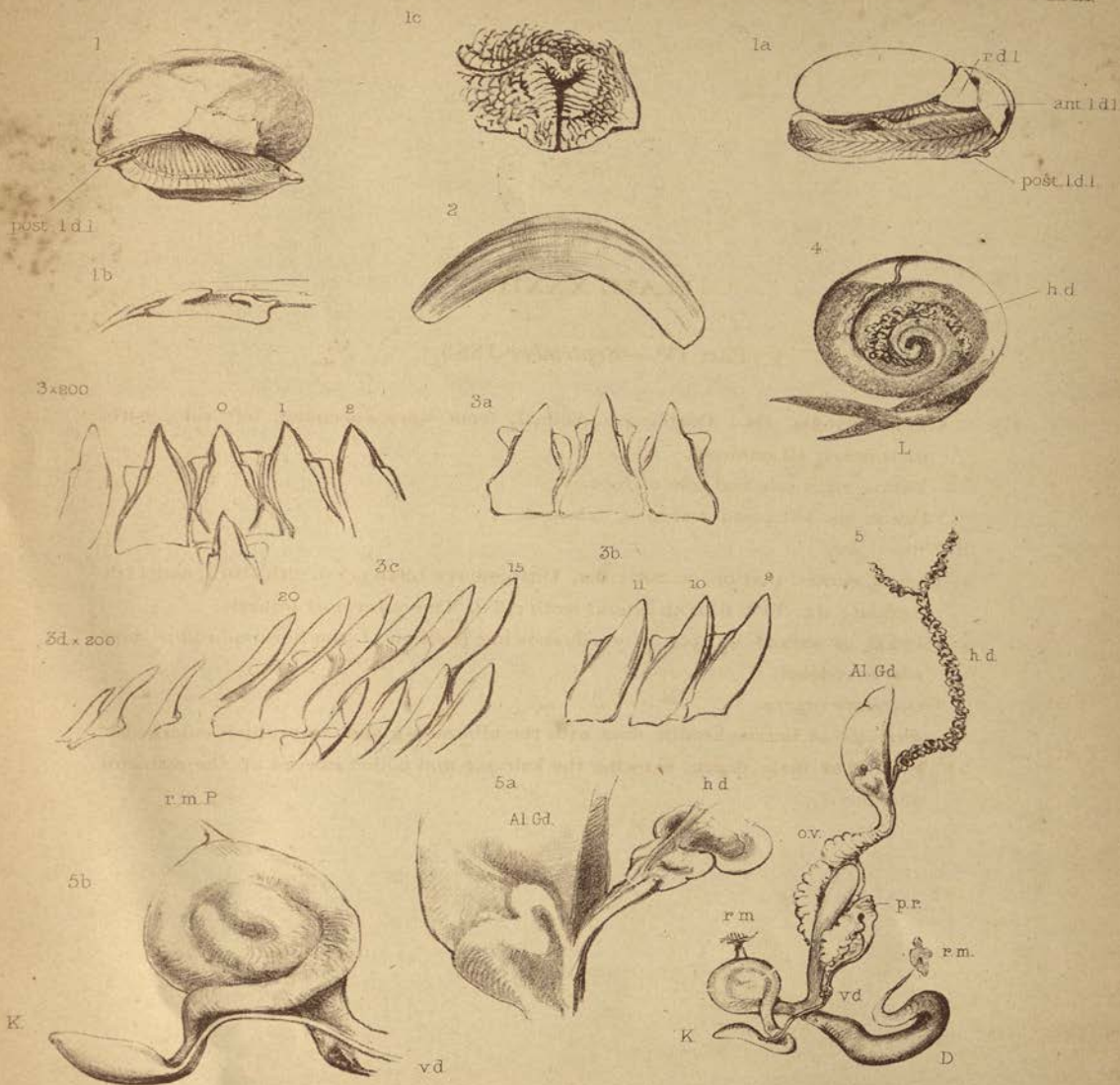
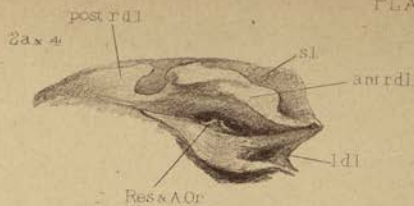
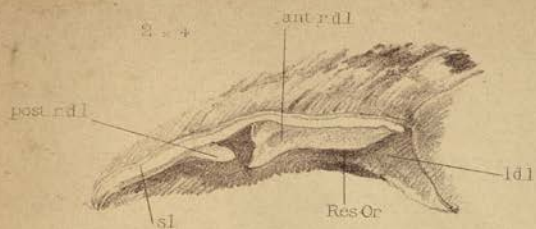


PLATE XXXIII.

[Part IV.—*September* 1883.]

- Fig. 1. *ARIOPHANTA IMMERITA*, W. Blf., nat. size. South India.
2. Ditto: mantle viewed from left side, shell removed, $\times 4$.
 - 2 *a*. Ditto: the same turned back.
 3. Ditto: side view of extremity of foot.
 - 3 *a*. Ditto: back view of same, showing mucous gland.
 4. Ditto: jaw, $\times 7$.
 5. Ditto: teeth of radula, central portion, $\times 340$.
 - 5 *a*. Ditto: 20th to 24th median, 25th and 26th intermediate.
 - 5 *b*. Ditto: outermost laterals.
 6. Ditto: generative organs, $\times 2\cdot4$.
 - 6 *a*. Ditto: male organ. $\times 4$.
 - 7, 7 *a*. *ARIOPHANTA LÆVIPES*, Müll., nat. size. Bombay.



1 nat size



3 x 4



7 nat size



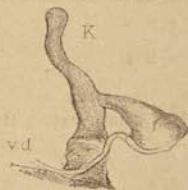
7a



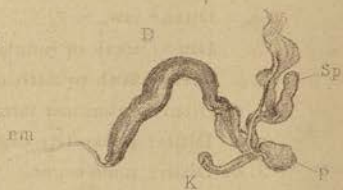
5 x 240



6a x 4



6



5a

20



5b



PLATE XXXIV.

[Part IV.—*September* 1883.]

Fig. 1. ARIOPHANTA LÆVIPES, Müller.

1 *a.* Ditto: extremity of foot, from above.

2, 2 *a.* ARIOPHANTA INTERRUPTA.

3. ——— LAIDLAYANA, Pfr.

The above are copied from drawings by a native artist.

4. ARIOPHANTA? RETRORSA, Gould, nat. size. Tenasserim.

5. Ditto: sculpture of last whorl, $\times 12$.

6. ARIOPHANTA INTERRUPTA: sculpture of last whorl, $\times 12$.

7. ——— RETRORSA: jaw.

8. Ditto: central and three median teeth of radula.

8 *a.* Ditto: 8th, 9th, and 10th median, 11th transition, and first laterals.



5 x 12



2a



4 nat size



6 x 12



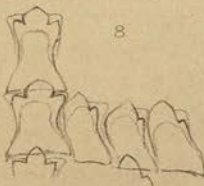
3



7



8



8a

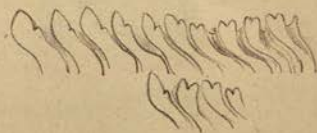


PLATE XXXV.

[Part IV.—*September* 1883.]

Fig. 1, 1 *a*. *MACROCHLAMYS DALINGENSIS*, G.-A., $\times 2\cdot4$. W. Bhutan Hills.

2. Ditto: sculpture on last whorl, $\times 50$.
3. Ditto: animal, right side, showing mantle and shell-lobes, $\times 4$.
4. Ditto: ditto, left side, ditto, $\times 4$.
5. Ditto: ditto, front view, $\times 4$.
6. Ditto: extremity of foot, showing mucous gland, $\times 7$.
7. Ditto: jaw, $\times 12$.
8. Ditto: odontophore, central teeth, $\times 200$.
- 8 *a*. Ditto: ditto, $\times 200$.
- 8 *b*. Ditto: ditto, last laterals, $\times 200$.
9. Generative organs, $\times 2\cdot4$.
10. Buccal mass, mucous and salivary glands, $\times 2\cdot4$.

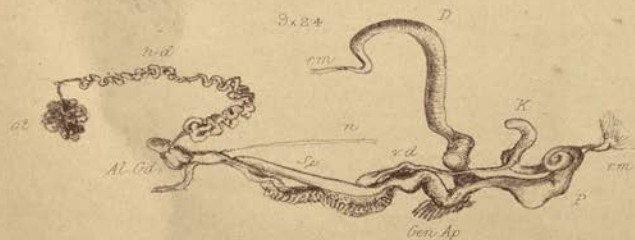
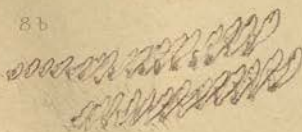


PLATE XXXVI.

[Part IV.—*September* 1883.]

- Fig. 1. *AUSTENIA PLANOSPIRA*, Bs. Darjiling. From a drawing by a native artist.
2. Ditto: from a spirit-specimen, right side, $\times 2\cdot4$.
 3. Ditto: ditto, left side, $\times 2\cdot4$.
 4. Ditto: the mucous gland, viewed from behind, $\times 7$.
 5. Ditto: shell, nat. size.
 - 5 *a*, 5 *b*, 5 *c*, 5 *d*. Ditto: shell, $\times 2\cdot4$.
 6. *AUSTENIA BENSONI*, Pfr., nat. size. Calcutta. From a drawing by a native artist.
 - 7, 7 *a*, 7 *b*. Ditto: shell, $\times 2\cdot4$. Jessore District.



1. nat. size.



5 a x 24.



5 d.



5. nat. size.



5 b.



5 c.



7 b.



7 x 24.



7 a.



6. nat. size.



PLATE XXXVII.

[Part IV.—*September* 1883.]

- | | |
|--|---------------|
| Fig. 1, 1 <i>a</i> , 1 <i>b</i> . AUSTENIA SALIUS, Bs., × 2·4. | Teria Ghat. |
| 2, 2 <i>a</i> , 2 <i>b</i> . ——— SALIUS, Bs., var., × 2·4. | Darjiling. |
| 3, 3 <i>a</i> , 3 <i>b</i> . ——— PANCHETENSIS, × 2·4. | Lower Bengal. |
| 4, 4 <i>a</i> , 4 <i>b</i> . ——— PAPILLASPIRA, G.-A., × 2·4. | N.W. Khasi. |
| 5, 5 <i>a</i> , 5 <i>b</i> . ——— GLOBOSA, × 2·4. | Dafla. |

1 x 24.



1 a.



1 b.



2 x 24.



2 a.



2 b.



3 x 24.



3 a.



3 b.



4 x 24.



4 a.



4 b.



5 x 24.



5 a.



5 b.



PLATE XXXVIII.

[Part IV.—*September* 1883.]

AUSTENIA PLANOSPIRA, Benson. W. Bhutan Hills.

Fig. 1. Generative organs, $\times 4$.

1 *a*. Amatorial organ, $\times 7$.

1 *b*. Buccal mass and gland, salivary gland, &c., $\times 4$.

AUSTENIA BENSONI, Pfr. Calcutta.

2. Radula, median and laterals, $\times 340$.

AUSTENIA BENSONI, var. SYLHETENSIS. Sylhet.

3. Shell, $\times 2\cdot4$.

3 *a*. Extremity of foot and mode of carrying it (enlarged).

3 *b*. Mantle-edge removed, $\times 4$.

3 *c*. Radula, $\times 340$.

4, 4 *a*. SITALA CRENICINCTA: radula, $\times 1250$.

5. KALIELLA BARRAKPORENSIS: generative organs, $\times 12$.

6. To illustrate the dimensions as given in this work.



PLATE XXXIX.

[Part IV.—*September* 1883.]

Fig. 1. DURGELLA MINUTA, G.-A.: from life, nat. size. Dafia Hills.

2. Ditto: view of right side, showing the shell-lobes, $\times 4$.
- 2 a. Ditto: left side, ditto, $\times 4$.
3. Ditto: shell, $\times 4$.
- 3 a. Ditto: ditto, $\times 2\cdot4$.
4. Ditto: jaw, $\times 20$.
5. Ditto: central tooth of radula and adjacent teeth, $\times$ about 1250.
- 5 a. Ditto: laterals near margin.
6. Generative organs, $\times 7$.

7, 7 a. DURGELLA KHASIANA, G.-A., from life, nat. size. West Khasi Hills.

- 7 b. Ditto, $\times 2\cdot4$.
8. Ditto: central teeth of radula, very much enlarged.
- 8 a. Ditto: ditto, two rows, $\times 340$.
- 8 b. Ditto: the outermost laterals, very much enlarged.

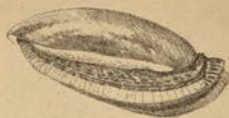
2 x 3



1 nat. size



2a x 4



1a



3 x 4



7a



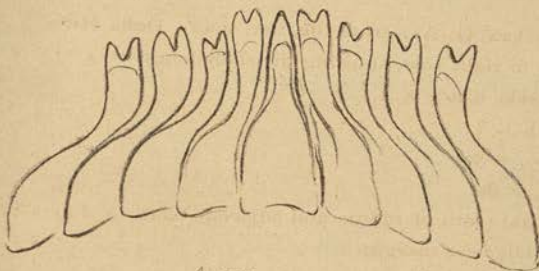
7 x 4



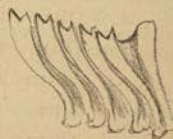
6 x 7



S



5a



3a x 24



4 x 20



7b x 24



8b



8



8a x 340



PLATE XL.

[Part IV.—*September* 1883.]

Fig. 1. *MACROCHLAMYS KALA*, G.-A.: shell, $\times 4$. Western Bhutan Hills.

1 *a*. Ditto: ditto, $\times 2\cdot4$.

1 *b*. Ditto: ditto, nat. size.

2. Ditto: animal, viewed from right side, snail removed, showing shell and dorsal lobes, $\times 4$.

3. Ditto: ditto, viewed from left side, $\times 4$.

4. Ditto: shell and dorsal lobes removed, $\times 7$.

5. Ditto: generative organs, $\times 4$.

6. Ditto: male organ: *sp*, the spermatophore developing, $\times 7$.

7. Ditto: spermatheca, $\times 12$: *sp*, a spermatophore within it.

8. Ditto: jaw, $\times 12$.

9, 9 *a*. Teeth of radula, $\times 340$.

10, 10 *a*. *MACROCHLAMYS KAZAMAENSIS*, G.-A. (Plate XV. figs. 3, 3 *a*): portion of the radula, $\times 1250$.

11. Ditto: a portion of spermatophore, $\times 110$.



PLATE XLI.

[Part IV.—*September* 1883.]

- Fig. 1, 1 *a*. *HELICARION HELENÆ*, n. sp. Sydney. From a drawing by Mrs. H. Forde.
2. View of right side of a spirit-specimen, shell removed, showing mantle and lobes,
× 4.
 3. View of left side, ditto.
 4. View from behind.
 5. Shell, × 4.
 6. Jaw, × 12.
 - 7, 7 *a*, 7 *b*. Portions of a row of the radula, × 340.
 8. Generative organs, × 4.
 - 8 *a*. Male organ, × 12.
 9. *HELICARION CUVIERI*: generative organs, after Professor Semper.
 10. Ditto: teeth of radula, central, Nos. 1, 5, 14, 17, and 20, × 260.

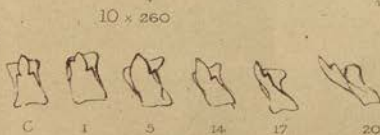
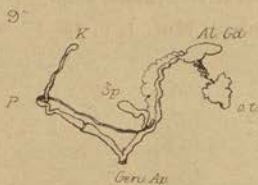
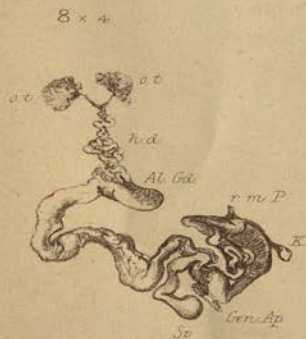


PLATE XLII.

[Part IV.—*September* 1883.]

VITRINA RUPPELLIANA, Pfr. Abyssinia.

- Fig. 1. Animal: right side, $\times 2\cdot4$.
2. Ditto: left side, $\times 2\cdot4$.
3. Ditto; from behind, $\times 2\cdot4$.
4. Generative organs, $\times 4$.
5. Buccal mass, salivary gland, &c., $\times 4$.
6, 6 *a*, 6 *b*. Radula, $\times 340$.
7. Jaw, $\times 12$.

1 x 2 +



2 x 2 +



3 x 2 +



5 x +



4 x +



6 x 340



6 b



6 a



7 x 12



PLATE XLIII.

[Part V.—*June* 1884.]

Fig. 1, 1 *a*, 1 *b*, 1 *c*. ALYCÆUS HEBES, Benson, × 7.

Khasi Hills.

2, 2 *a*, 2 *b*. — NOTATUS, G.-A., × 7.

Dafra Hills.

3, 3 *a*, 3 *b*, 3 *c*. — DAMSANGENSIS, G.-A., × 7.

Western Bhutan Hills.

1a.



1 x z.



+

1c.



1b.



2 x z.



+

2a.



2b.



3 x z.



+

3a x c.



3b.



3c.



PLATE XLIV.

[Part V.—*June* 1884.]

Fig. 1, 1 *a*, 1 *b*, 1 *c*. *ALYCÆUS INGRAMI*, W. T. Blf., $\times 2\cdot4$.

2, 2 *a*, 2 *b*, 2 *c*. — *UMBONALIS*, Bs., $\times 2\cdot4$.

3, 3 *a*, 3 *b*, 3 *c*. — *NAGAENSIS*, G.-A., $\times 2\cdot4$.

Tongoop, Arakan.

Kyouk-toung, Pegu.

Asalu, North Cachar Hills.

1a.



1 x 4.



1c.



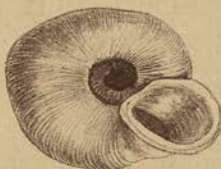
1b.



2 x 3.



2a.



2b.



3.



3a.



3b.



3c.





PLATE XLV.

[Part V.—*June* 1884.]

- Fig. 1, 1 *a*. DIPLOMMATINA POLYPLEURIS, Bs., $\times 12$. Khasi Hills.
2, 2 *a*. — AUSTENI, W. Blf., $\times 12$. N. Khasi Hills.
3, 3 *a*. — SILVICOLA, G.-A., $\times 12$. N. Cachar Hills.
4, 4 *a*. — DAFLAENSIS, G.-A., $\times 7$. Dafla Hills.
5, 5 *a*. — SILVICOLA, small var., $\times 12$. N. Cachar Hills.
6, 6 *a*. — SALTUENSE, G.-A., $\times 12$. N. Cachar Hills.
7, 7 *a*. — HUTTONI, Bs., $\times 12$. N.W. Himalaya.
7 *b*. Apex of ditto, $\times 20$.
8, 8 *a*. DIPLOMMATINA OCCIDENTALIS, G.-A., $\times 12$. Trinidad.
8 *b*. Apex of ditto, $\times 20$. West Indies.

1 x 12.



1 a.



2 x 12.



2 a.



3 x 12.



3 a.



4 x 7.



4 a.



5 x 12.



5 a.



6 x 12.



6 a.



7

x 12.



7 a.



8 b.

x 20.



8 a.



8

x 12.



7 b.

x 20.



PLATE XLVI.

[Part V.—*June* 1884.]

Fig. 1, 1 <i>a</i> , 1 <i>b</i> .	DIPLOMMATINA GRACILIS, Bedd., × 12.	Vizagapatam, Madras.
2, 2 <i>a</i> .	—— GRACILIS, var., × 12.	Vizagapatam, Madras.
3, 3 <i>a</i> .	—— CANARICA, Bedd., × 12.	North Canara.
4, 4 <i>a</i> .	—— PUPÆFORMIS, Theob., × 7.	Shan States, Burmah.
5, 5 <i>a</i> .	—— SPERATA, W. T. Blf., × 7.	Arakan.
6, 6 <i>a</i> .	—— HENZADAENSIS, G.-A., × 12.	Pegu.
7, 7 <i>a</i> .	—— NICOBARICA, G.-A., × 12.	Nicobar Islands.

1 x 12



1 a



1 b



2 x 12



2 a



5 b x 20



4 x 7



4 a



6 b x 20



5 x 7



5 a



6 x 12



6 a



7 x 12



7 a



3 x 12



3 a



PLATE XLVII.

[Part V.—*June* 1884.]

- | | | | |
|-----------------|------------------------|--|-------------------------------------|
| Fig. 1, | 1 <i>a</i> . | RAPHAULUS CHRYSALIS, × 2·4. | Moulmain. |
| 2. | — | ASSAMICA, G.A., × 2·4. | Eastern Assam. |
| 2 <i>a</i> . | Ditto, | × 1·6. | |
| 2 <i>b</i> . | Ditto: | front view of aperture, × 2·4. | |
| 3, 3 <i>a</i> . | RAPHAULUS | PACHYSIPHON, × 2·4. | Moulmain. |
| 4, 4 <i>a</i> . | — | BLANFORDI, Bs., × 2·4. | Eastern Himalaya. |
| 4 <i>b</i> . | Ditto: | posterior termination of sutural tube, × 12. | |
| 4 <i>c</i> . | Ditto: | operculum, × 7. | |
| 5. | Ditto, var. <i>a</i> . | INTUBUS, × 4. | Dafra Hills; Eastern Himalaya. |
| 5 <i>a</i> . | Ditto, ditto: | aperture, front view, × 4. | |
| 6. | Ditto, var. <i>β</i> . | TUBULUS, × 2·4. | Dafra Hills. |
| 6 <i>a</i> . | Ditto, ditto, | × 4. | |
| 7. | Ditto, var. <i>γ</i> . | TORTUOSUS, × 4. | Damsang Peak; Western Bhutan Hills. |
| 8. | Ditto, abnormal var., | × 2·4. | Damsang. |

1 x 2.4



1a



6 x 2.4



6a x 4



8 x 2.4



2 x 2.4



2a x 1.6



2b x 2.4



7 x 4



3 x 2.4



3a



5a x 4



5 x 4



4 x 2.4



4a



4b x 12



4c x 7



PLATE XLVIII.

[Part V.—*June* 1884.]

- | | | |
|--|--------------------------------|-------------------|
| Fig. 1, 1 <i>a</i> , 1 <i>b</i> , 1 <i>c</i> . | ALYCÆUS CHENNELLI, G.-A., × 7. | Naga Hills. |
| 2. | —— CHENNELLI, var. | Lhota-Naga Hills. |
| 3. | —— BRAHMA, G.-A., × 7. | Brahmakund. |
| 3 <i>a</i> , 3 <i>b</i> , 3 <i>c</i> . | Ditto, × 4. | |
| 4, 4 <i>a</i> , 4 <i>b</i> , 4 <i>c</i> . | ALYCÆUS GEMMULA, Benson, × 7. | Darjiling. |
| 5, 5 <i>a</i> , 5 <i>b</i> , 5 <i>c</i> . | —— PACHITAENSIS, G.-A., × 7. | Dafla Hills. |

1 x 7.



1a.



1b.



3 x 7.



1c.



2 x 7.

+



3c.



3b.



3a x 7.



4a.



4b.



4 x 7.



4c.



5 x 7.



5a.



5b.



PLATE XLIX.

[Part V.—*June* 1884.]

Fig. 1.	DIPLOMMATINA EXILIS, W. Blf., × 12.	Ava.
2, 2 a.	—— EXSERTA, Nev., × 12.	Moulmain.
3.	—— AFFINIS, Theobald ?, × 12.	Upper Salwin valley.
4, 4 a, 4 b.	—— CRISPATA, Stol., × 12.	Moulmain.
5, 5 a.	—— ANGULATA, Theob. & Stol., × 12.	Moulmain.
6, 6 a.	—— NANA, W. T. Blf., × 12 and 7.	Pegu.
7, 7 a.	—— EDENTULA, G.-A., × 12.	Moulmain.
8, 8 a.	—— CARNEOLA, Stol., × 12 and 7.	Moulmain.
9.	—— PUPPENSIS, W. T. Blf., × 12.	Upper Burmah.
10, 10 a.	—— BLANFORDIANA, Bs., × 7 and 12.	Darjiling Hills.
11, 11 a.	—— THEOBALDI, n. sp., G.-A., × 12.	Darjiling.
12.	—— PULLULA, Bs., × 12.	Darjiling.
13, 13 a.	—— MINIMA, Bedd., × 20 and 12.	South India.

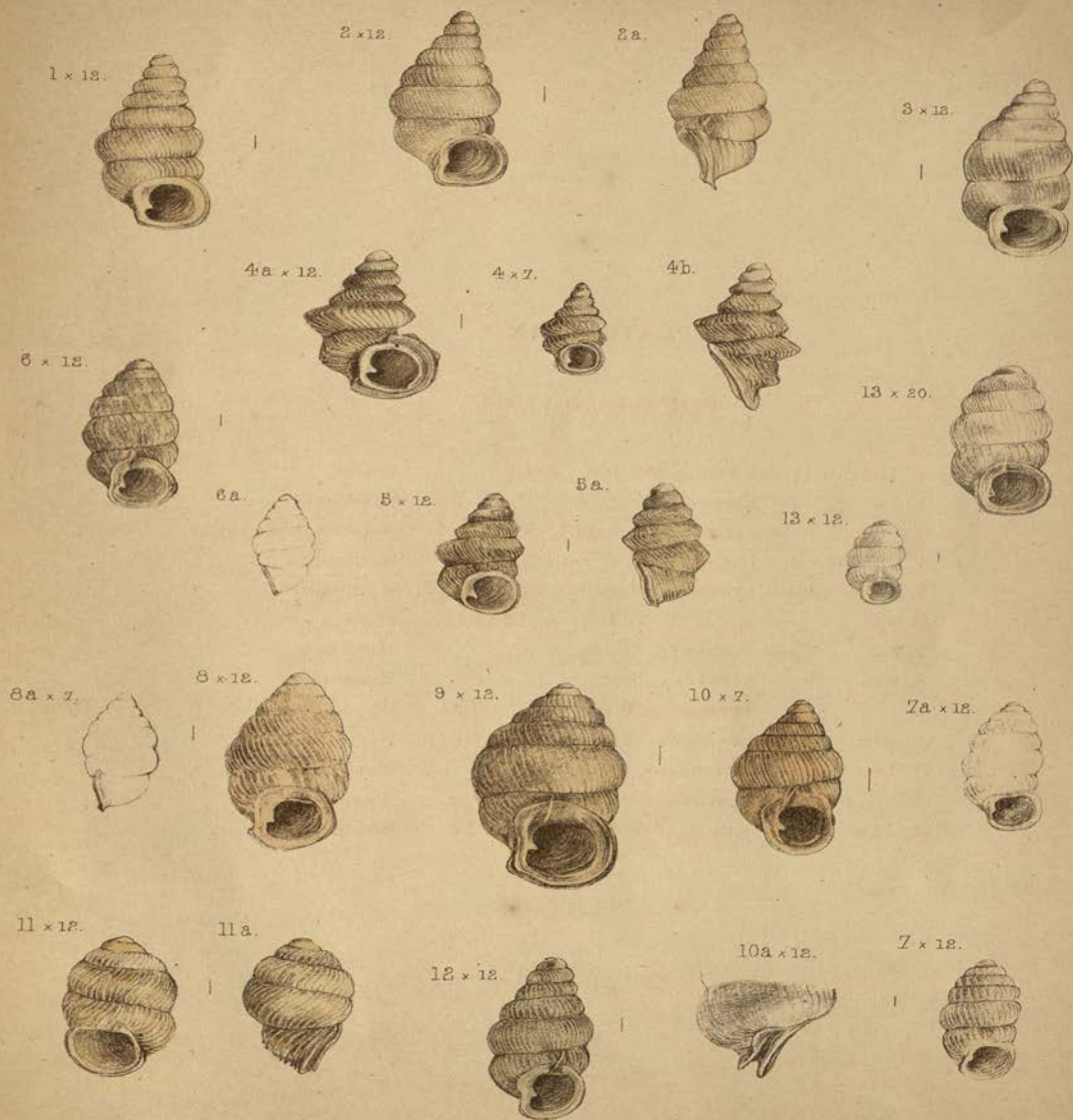


PLATE L.

[Part V.—*June* 1884.]

- Fig. 1. *DIPLOMMATINA OLIGOPLEURIS*, W. T. Blf. Teria Ghat. Drawn from life, creeping and at rest. Enlarged.
2. *DIPLOMMATINA FOLLICULUS*, Pfr. Mussoorie. The shell held in the hand, showing manner of protrusion of the rostrum and the various forms the animal assumes. Enlarged.
3. *DIPLOMMATINA INSIGNIS*, G.-A., $\times 12$. Spirit-specimen.
4. — *BLANFORDIANA*, Bs., $\times 12$. Ditto. Western Bhutan. *f*, foot; *o*, operculum; *s.m.*, shell-muscle; *b.c.*, branchial sac.
5. *DIPLOMMATINA BLANFORDIANA*, Bs., $\times 20$. Portion of the head under slight pressure, showing:—*r*, radula; *b.p.*, buccal plate; *t*, tentacle; *e*, eye; *o*, otolith?; *m*, mantle.
- 5 *a*. Ditto: portion of buccal plate, $\times 360$.
- 5 *b*. Ditto: otoliths?, $\times 360$.
6. *DIPLOMMATINA INSIGNIS*, G.-A.: portion of radula, $\times 360$.
- 6 *a*. Ditto: ditto.
- 6 *b*. Ditto: central and lateral teeth of radula in different positions. Very much enlarged.
7. *DIPLOMMATINA PACHYCHEILUS*. Khasi Hills. Portion of the shell enlarged, showing the position of the operculum (*o*) and constriction (*c*) in the penultimate whorl, the internal parietal rib or lamella (*r*), and the columellar twist or tooth (*t*).
- 7 *a*. Ditto: ditto, another view.
- 7 *b*. Ditto: vertical section anterior to the operculum.
- 7 *c*. Ditto: horizontal section at the operculum, when withdrawn into shell to the full extent: the arrow shows the anterior side of same and direction towards the aperture; *col*, columella; rest of lettering same as above.
8. *DIPLOMMATINA BLANFORDIANA*, Bs., $\times 12$. Darjiling. Showing similar construction. Front view.
- 8 *a*. Ditto. Ditto. Viewed from side.
9. *DIPLOMMATINA INSIGNIS*, G.-A.: operculum, $\times 20$.



PLATE LI.

[Part V.—June 1884.]

- Fig. 1. *CYCLOPHORUS AURORA*, Bs., ♂, × 2.4. Animal from spirit-specimen. Damsang Peak, W. Bhutan Hills. *m*, the mantle drawn back, showing (*a.o*) the anal orifice and *p* the penis; *r*, the rostrum; *f*, sole of foot folded together; *s.m*, shell-muscle; *o*, operculum.
2. *CYCLOPHORUS AURORA*, Bs., ♀, × 2.4. Spirit-specimen. Animal withdrawn into the shell. Viewed from the outer side of the aperture. Greater portion of shell broken away, showing foot folded together. Same locality.
- 2 *a*. Ditto: ditto, × 2.4. Viewed from the right side.
- 2 *b*. Ditto: ditto, × 1.6. Viewed from the left side, showing form of the mantle and the branchial cavity (*b.c*).
- 2 *c*. Ditto: ditto, × 1.6. Viewed from the right side, to show the shell-muscle (*s.m*).
- 2 *d*. Ditto: ditto, × 1.6. The mantle cut and opened back to show the anal orifice and interior of the branchial cavity.
3. *ALYCÆUS NAGAENSIS*, G.-A., enlarged. Animal from spirit-specimen.
4. — *BICRENATUS*, G.-A. One row of the radula. Much enlarged.
5. — *BEMBEX*, Bs. Sutural tube (*t*) of the whorl of the shell broken away, to show the internal orifice of the same (*o.t*).
6. *ALYCÆUS NAGAENSIS*, G.-A., × 7. The outer right margin of the shell broken away, to show the sutural tube (*t*) in the internal orifice of the same (*o.t*).
- 6 *a*. Diagrammatic section of the frontal edge of the mantle (*m*) in *ALYCÆUS*, by which the sutural tube is formed.
7. *RAPHAULUS BLANFORDI*, Bs., enlarged. Animal removed from shell, showing the sutural or branchial tube (*t*).
8. Ditto, × 7. Shell with margin broken away, to show the internal orifice (*o.t*) of the sutural tube (*t*), extending forward to the peristome.
9. *RAPHAULUS BLANFORDI*, Bs., × 20. A portion of the shell near suture, to show the internal sutural tube (*t*) and the external sutural tube (*t'*), corresponding to that in fig. 7.
- 9 *a*. Diagrammatic section of the same across the front edge of the mantle (*m*), to illustrate the formation of the internal and external sutural tubes (*t*, *t'*).



PLATE LII.

[Part VI.—*September* 1887.]

- Fig. 1, 1 *a*. *AUSTENIA SCUTELLA*, Bs., $\times 2\cdot4$. Murree, Punjab. Animal viewed from right and left sides.
- 1 *b*. Ditto : the extremity of foot viewed from behind, $\times 4$.
- 1 *c*, 1 *d*. Ditto : shell, $\times 2\cdot4$. Chinab valley.
- 1 *e*. Ditto : shell, natural size. Chinab valley.
- 2, 2 *a*. *AUSTENIA* ? *MONTICOLA*, Bs., natural size. Mussoorie, N.W. Himalaya.
- 3, 3 *a*. — ? *STOLICZKANUS*, Nevill, $\times 1\cdot6$. Almorah, N.W. Himalaya.
- 3 *b*. — — —, natural size.
- 4, 4 *a*. — ? *SERAHANENSIS*, G.-A., $\times 1\cdot6$. Sutlej Valley, N.W. Himalaya.
- 4 *b*. — — —, natural size.
- 5, 5 *a*. — ? *THEOBALDI*, G.-A., $\times 1\cdot6$. Bichlari, Chinab Valley, N.W. Himalaya.
- 5 *b*. — — —, natural size. Bichlari, Chinab Valley, N.W. Himalaya.

1 x 2 4



1 c x 2 4



1 e nat size



1 d



1 a



2 nat size



1 b x 4



2 a



3 x 1 6



3 b nat size



3 a



4 x 2 4



4 a



4 b nat size



5 x 1 8



5 b nat size



5 a

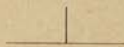


PLATE LIII.

[Part VI.—*September* 1887.]

Fig. 1.	MACROCHLAMYS ? CONSEPTA, Benson, × 2·4.	Moulmain, Tenasserim.
2.	—— WOODMASONI, Nevill, MS., × 4.	Little Coco Island, Bay of Bengal.
3.	—— HEPATIZON, G.-A., × 2·4.	Habiang, S.W. Khasi.
4, 4 a, 4 b.	—— —, × 2·4.	Dafra Hills.
5.	—— PATANE, × 4.	Darjiling.
6.	—— PETASUS, Bs., × 4.	Phie Than, Tenasserim.
7.	—— SUBPETASUS, G.-A., × 4.	Arakan.
8, 8 a.	—— LATUS, G.-A., × 2·4.	Teria Ghat, Khasi.

1 x 2.4.



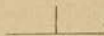
2 x 4.



5 x 4.



3 x 2.4.



7 x 4.



6 x 4.



4 x 2.4.



4b x 2.4.



4 x 2.4.



8a x 2.4.



8 x 2.4.



PLATE LIV.

[Part VI.—*September 1887.*]

- Fig. 1. *MACROCHLAMYS FLEMINGI*, Pfr. Murree. Right side. From spirit-specimen,
 natural size.
- 1 *a*. Ditto : left side.
- 1 *b*. Ditto : posterior view of the mucous gland, $\times 4$.
- 1 *c*. Ditto : the head, showing position of the generative orifice and the groove running
 back from it, under the mantle-lobes.
- 1 *d*, 1 *e*. Ditto : shell, natural size.
- 2, 2 *a*. *MACROCHLAMYS ALTIVAGUS*, Theob., natural size. Uri, Kashmir.
- 3, 3 *a*. — *CASSIDA*, Bs., natural size. Kashmir.
4. — *AUSTENIANUS*, Nevill, natural size. Sonamurg, Kashmir.
- 4 *a*, 4 *b*. Ditto, $\times 2\cdot4$.

1 nat. size



1 a.



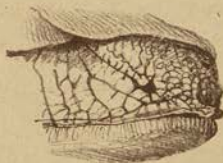
1. b x 4.



1 d nat. size



1 c x 2-4.



1 e.



2 nat. size



2 a



4 a x 2 4.



3 nat. size



4 nat. size



4 b x 2 4.



3 a.



PLATE LV.

[Part VI.—*September* 1887.]

- Fig. 1. *GIRASIA HOOKERI*, Gray. Spirit-specimen, natural size. Khasi Hills. View of right side : *c*, cicatricial line marking the junction of the right and left shell-lobes.
- 1 *a*. Ditto : left side.
- 1 *b*. Ditto : dorsal aspect.
- 2, 2 *a*, 2 *b*. Ditto : shell of.
3. *AUSTENIA GIGAS*, Bs. Right side of animal from spirit-specimen, natural size.
- 3 *a*. Ditto : view of left side.
- 3 *b*. Ditto : viewed from the back, the portion within the apex of the shell cut off, to show more clearly the shell-lobes on the posterior margin : *hd*, hermaprodite duct, position of, passing back to the ovo-testes.
- 4, 4 *a*, 4 *b*. Ditto : shell, natural size.

1 (nat size)



2a.



1a



2 (nat size)



1b.



2b



4 (nat size)



4a.



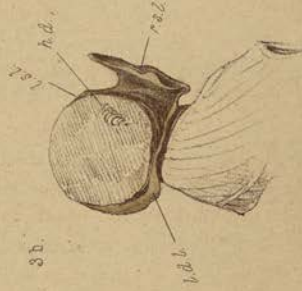
4b.



3 (nat size)



3b.



3a

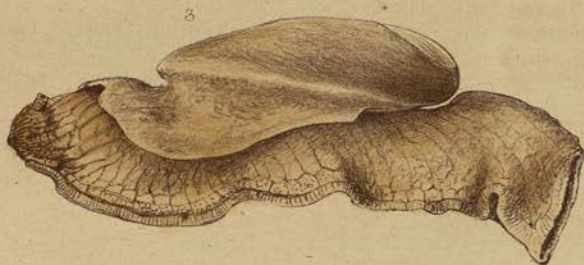


PLATE LVI.

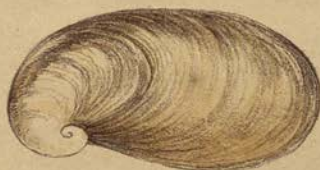
[Part VI.—*September* 1887.]

- Fig. 1. GIRASIA MAGNIFICA, Nev. & G.-A., natural size. Momein, Yunnan. View of right side.
2. Ditto : viewed from above, showing the cicatricial junction of the right and left shell-lobes (*c*).
3. Ditto : view of left side.
4. Ditto : viewed from behind.
- 5, 5 *a*. Shell, natural size. Copied from J. A. S. B. 1881, plate v. Drawn and lithographed by Jules Schaumburg, Calcutta.

2 (nat size)



5 (nat size)



5a.

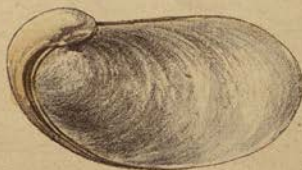


PLATE LVII.

[Part VI.—*September* 1887.]

- Fig. 1. *AFRICARION ATER*, G.-A. Travancore and Tinevelley Hills, S. India. View of right side, $\times 2\cdot4$. Shell removed.
- 1 *a.* Ditto : view of dorsal side, $\times 2\cdot4$.
- 1 *b.* Ditto : view of left side, position internally of the muscle-attachment of the retractor penis (*m*), $\times 2\cdot4$.
- 1 *c.* Ditto : portion of sole of foot, $\times 2\cdot4$.
- 2, 2 *a.* Shell, from above and below, $\times 2\cdot4$.
- 2 *b.* Ditto : natural size.
3. *AFRICARION ATER*, var. *ATERRIMUS*, natural size.
- 3 *a.* Ditto : viewed from behind, $\times 2\cdot4$.
- 3 *b.* Ditto : sole of foot, anterior portion, $\times 2\cdot4$.
- 3 *c.* Ditto : jaw, $\times 12$.
- 4, 4 *a.* Ditto : shell, $\times 4$. Showing the membranaceous peristome (*p*).
5. Ditto : generative organs of var. *ATERRIMA*, $\times 2\cdot4$.
- 5 *a.* Ditto : male organ of *ATER*, $\times 4$. Showing the spermatophore in process of formation (*s*).
6. *AFRICARION ATER*, var. *CINEREUS*, natural size.
7. Shell of *AFRICARION AURIFORMIS*, Bif., $\times 2\cdot4$. Sispara Ghat, Nilgiri Hills.
- 7 *a.* Ditto : natural size.



PLATE LVIII.

[Part VI.—*September* 1887.]

- Fig. 1, 1 *a*, 1 *b*. GIRASIA (DEKHANIA) BEDDOMEI, G.-A., natural size. Travancore Hills.
Viewed from above and on the right and left sides. From spirit-specimen.
- 2, 2 *a*, 2 *b*. Shell of ditto, $\times 2\cdot4$.
3. Ditto, young, $\times 2\cdot4$.
- 4, 4 *a*. GIRASIA BEDDOMEI, var. MACULOSA, natural size. Viewed from above and right side.
5. Ditto, var. NIGRA, natural size. View of right side.
- 6, 6 *a*, 6 *b*. Ditto, var., natural size. Viewed from above and on right and left sides.

1 (nat size)



1a.



1b.



2, 24.



2a.



2b.



3, 24.



4 (nat size)



4a.



5 (nat size)



6 (nat size)



6a.



6b.



PLATE LIX.

[Part VI.—*September* 1887.]

- Fig. 1, 1 *a*, 1 *b*. GIRASIA PUNKABARIENSIS, G.-A.: animal, $\times 1.5$. Viewed from right side, above, and left side respectively.
- 2, 2 *a*. — (IBYCUS) SIKIMENSIS, G.-A.: animal, $\times 2.4$. Viewed from right side and above.
- 2 *b*. Shell of ditto, $\times 2.4$.
- 3, 3 *a*, 3 *b*. GIRASIA (IBYCUS) SIKIMENSIS, var. MAINWARINGI, Nevill, MS.: animal, $\times 4$.
4. — (—) CACHARICA, G.-A.: animal, $\times 2.4$.
- 4 *a*, 4 *b*. Shell of ditto, $\times 2.4$.
- 5, 5 *a*. AUSTENIA? VENUSTA, Theobald, $\times 2.4$.
- 6, 6 *a*, 6 *b*. GIRASIA PEGUENSIS, Theobald: animal, natural size. Viewed from right side, above, and left side.
- 6 *c*. Shell of ditto, $\times 2.4$.
- 6 *d*. Ditto, natural size.



2b x 24



2 x 24



2a



4b x 24



3 x 4



3a



3b



4b



5 x 24



5a



6c x 24



6d (nat size)



4 x 24



6 (nat size)



6a



6b



PLATE LX.

[Part VI.—*September* 1887.]

Fig. 1, 1 *a*. AUSTENIA GIGAS, Bs.

2. GIRASIA CROCEA, G.-A.

3. — HOOKERI, var. BRUNNEA.

4. Ditto, ditto.

5. Ditto, ditto.

6, 6 *a*. GIRASIA RADHA, G.-A.

7. — BUTLERI, G.-A.

8. — CINEREA, G.-A.

Teria Ghat, Khasi Hills.

Teria Ghat, Khasi Hills.

Shillong, Khasi Hills.

Shillong, Khasi Hills.

Shillong, Khasi Hills.

Durrang District, Assam.

Naga Hills.

Dafla Hills.

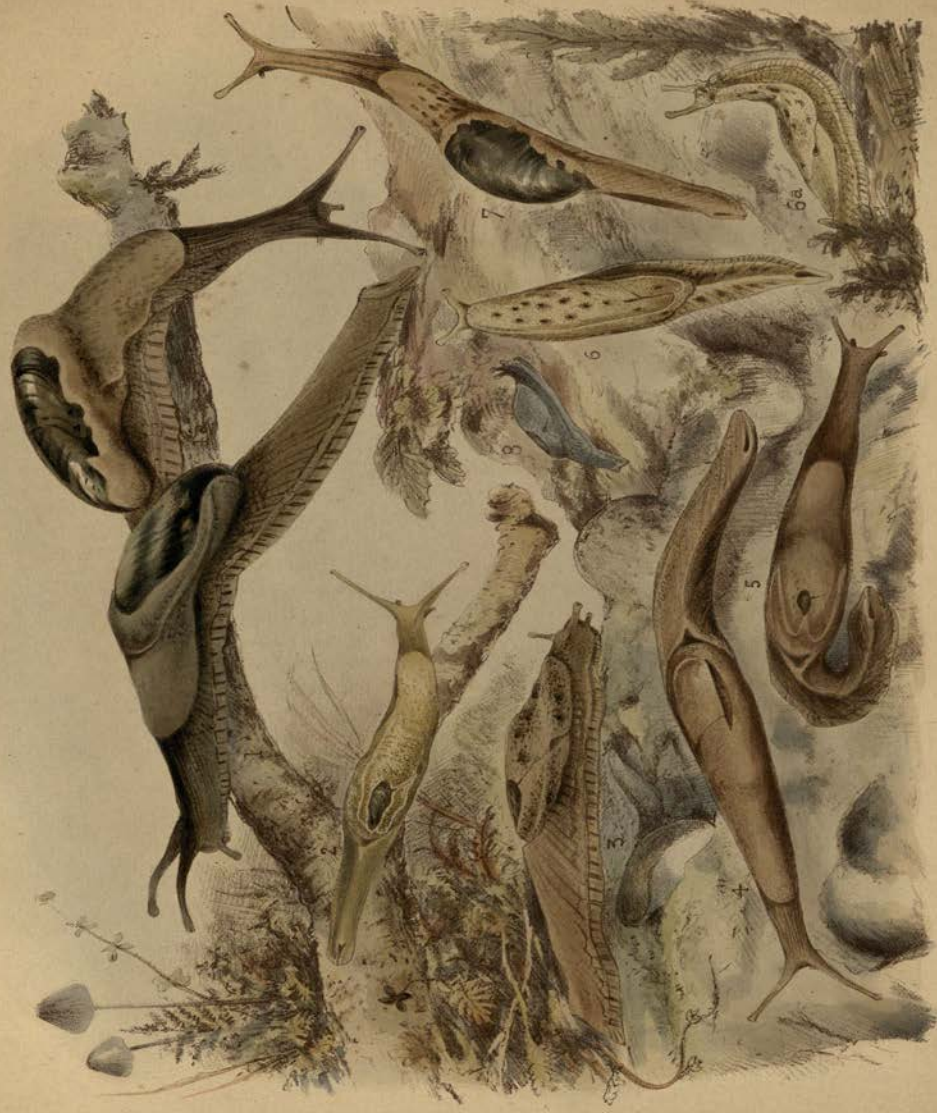


PLATE LXI.

[Part VI.—*September 1887.*]

- Fig. 1. GIRASIA DALHOUSIÆ, G.-A.: view of right side, $\times 1.5$.
- 1 a. Ditto: viewed from above.
 - 2. GIRASIA BURTHI, G.-A.: shell, natural size.
 - 3. ——— NAGAENSIS, G.-A.: view of right side of mantle.
 - 3 a. Ditto: view of mantle seen from above; *p*, posterior end.
 - 3 b. Ditto: extremity of foot, showing mucous gland.
 - 3 c. Ditto: shell, natural size.
 - 4. GIRASIA RUBRUM, G.-A.: view of left side, from life.
 - 4 a. Ditto: the right side of mantle and head, from life.
 - 4 b. Ditto: mantle viewed from above; *p*, posterior end.
 - 4 c. Ditto: extremity of foot, from life.
 - 4 d. Ditto: shell, enlarged and natural size.
 - 5. OXYTES (BENSONIA) LABIATA, Pfr. Generative organs, $\times 2.4$ (lettering as in former Plates): *sp*, the spermatheca is seen filled with a bundle of spermatophores.
 - 5 a. Ditto: central teeth of odontophore; 5 *a'*, 19th to 23rd median teeth; 5 *a''*, 36th to 40th lateral; 5 *a'''*, the outermost laterals, $\times 185$.
 - 5 e. Ditto: portion of spermatophore, $\times 4$; *b*, basal end.
 - 5 f. Ditto, ditto, anterior end, $\times 12$.
 - 5 f'. Ditto, ditto, middle portion.
 - 5 f''. Ditto, ditto, basal end, $\times 12$.
 - 5 g. Ditto, the anterior portion of capsular end.

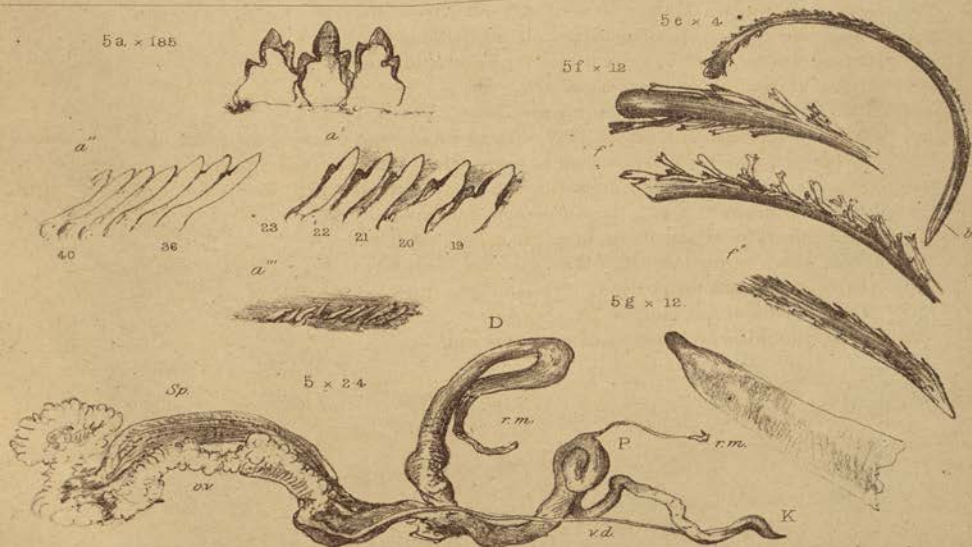


PLATE LXII.

[Part VI.—*September* 1887.]

- Fig. 1. GIRASIA HOOKERI, Gray: central, no. 34, 35, 36, and outermost lateral teeth of odontophore, $\times 185$; 1 *a*, jaw, enlarged.
2. ——— MAGNIFICUS, Nevill: central and lateral teeth, $\times 185$.
3. ——— RADHA, G.-A.: central, median, and lateral teeth, $\times 185$; 3 *a*, jaw, $\times 12$; 3 *b*, generative organs, enlarged. Lettering as in former Plates.
4. ——— DALHOUSIÆ, G.-A.: central, nos. 12-16, and outer lateral teeth, $\times 185$; 4 *a*, jaw, $\times 12$.
5. ——— (IBYCUS) CACHARICA, G.-A.: median teeth, 12-15, and the outermost laterals; 5 *a*, jaw, $\times 12$; 5 *b*, the basal end of the amatorial organ, $\times 12$; 5 *c*, part of the generative organs.
6. ——— CROCEA, G.-A.: central, median, and some of the lateral teeth, $\times 185$.
7. DEKHANIA BEDDOMEI, G.-A.: central, lateral, and outermost laterals, $\times 185$; 7 *a*, jaw, $\times 4$.
8. AUSTENIA GIGAS, Benson: central, median, and lateral teeth, $\times 185$; 8 *a*, jaw, $\times 4$.

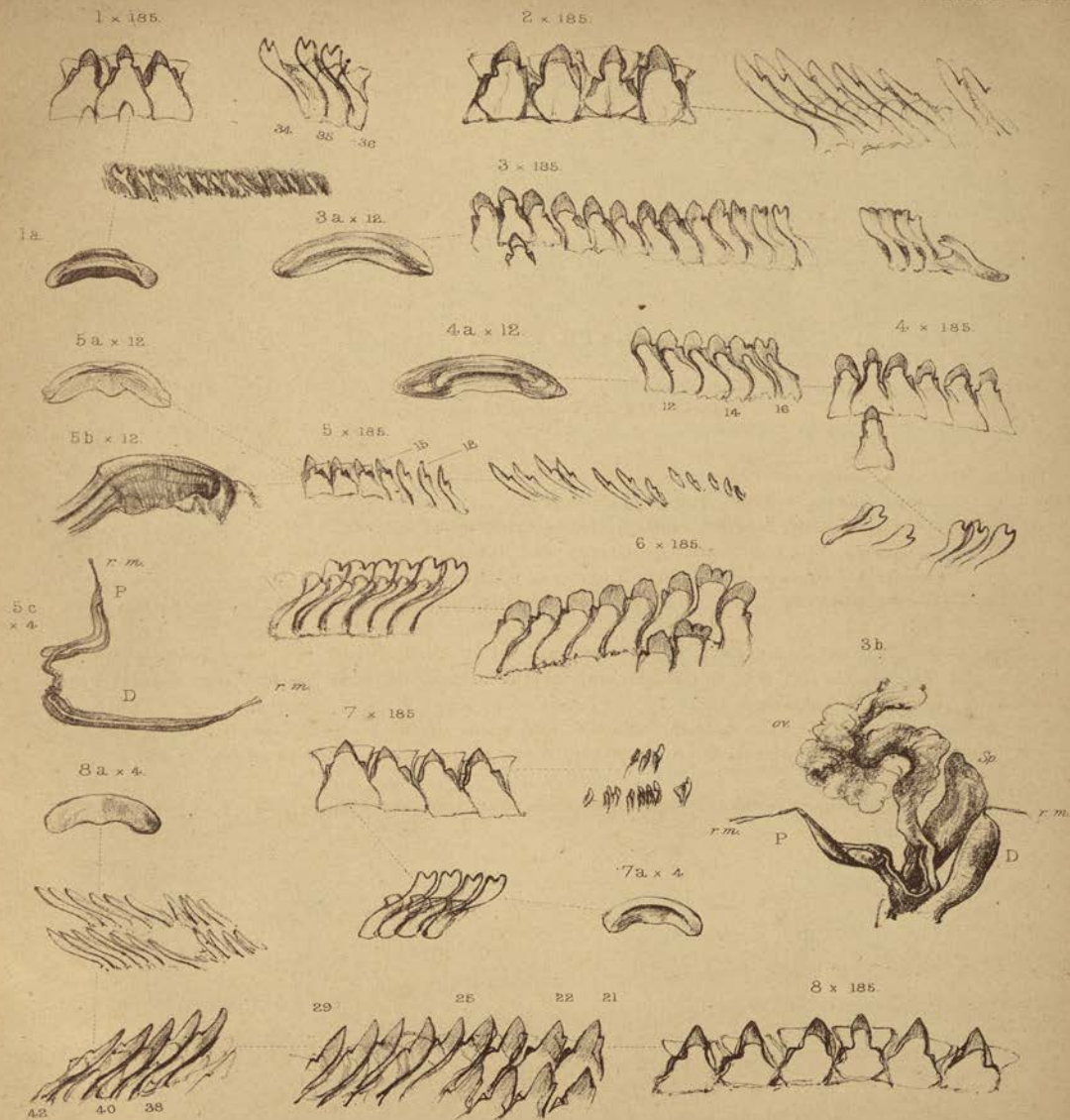


PLATE LXIII.

[Part VII.—*October* 1897.]

- | | | |
|-----------------------------------|-----------------------------|--------------------------|
| Fig. 1, 1 <i>a</i> , 1 <i>b</i> . | ALYCÆUS BUSBYI, G.-A., × 4. | Andaman. |
| 2, 2 <i>a</i> . | —— RUBINUS, G.-A., × 4. | Upper Burmah. |
| 3, 3 <i>a</i> . | —— DOHERTYI, G.-A., × 7. | Upper Burmah. |
| 4, 4 <i>a</i> . | —— SUBCULMEN, G.-A., × 7. | Naga Hills. |
| 5, 5 <i>a</i> . | —— BIRUGOSUS, G.-A., × 7. | Khasi and Manipur Hills. |
| 6. | —— GRANUM, G.-A., × 7. | Eastern Naga Hills. |
| 7, 7 <i>a</i> , 7 <i>b</i> . | —— OCHRACEUS, G.-A., × 7. | Upper Burmah. |

1 x 4



1a



1b



2 x 4



2a



3 x 7



4 x 7



5 x 7



3a



4a



5a



6 x 7



7 x 7



7a



7b



PLATE LXIV.

[Part VII.—*October* 1897.]

Fig. 1.	DIPLOMMATINA DECOROSA, G.-A., × 7.	Anghami Naga Hills.
2.	— AMBIGUA, G.-A., × 7.	Munipur Hills.
3, 3 a.	— GAROENSIS, G.-A., × 7.	Garo Hills.
4.	— COMMUTATA, G.-A., × 7.	Lahupa Naga Hills.
5.	— TUMIDA, G.-A., × 7. ? Typical.	N. Cachar Hills.
6.	— ELONGATA, G.-A., × 7. Type.	Naga Hills.
7.	— TUMIDA, G.-A., var., × 7.	Munipur.
8, 8 a, 8 b.	— CHENNELLI, G.-A., × 7.	Lhota Naga Hills.
9.	— BUTLERI, G.-A., × 7.	Munipur Hills.



PLATE LXV.

[Part VII.—*October 1897.*]

Fig. 1, 1 <i>a</i> .	DIPLOMMATINA DOHERTYI, G.-A.	Margarita, Eastern Assam.
2, 2 <i>a</i> .	—— THOMSONI, G.-A.	South Burrail Range.
3, 3 <i>a</i> .	—— NENGLOENSIS, G.-A.	North Cachar Hills.
4, 4 <i>a</i> , 4 <i>b</i> .	—— DISTINCTA, G.-A.	North of Burrail Range.
5.	—— KHUNHOENSIS, G.-A.	Khunho Peak, Naga Hills.
6, 6 <i>a</i> .	—— LAPILLUS, G.-A.	Lahupa Naga Hills.
7, 7 <i>a</i> .	—— COMPACTA, G.-A.	Munipur Hills.
7 <i>b</i> .	—— COMPACTA, G.-A.	Asalu, North Cachar Hills.
8, 8 <i>a</i> .	—— JATINGANA, G.-A.	North Cachar Hills.

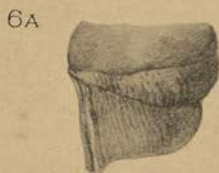
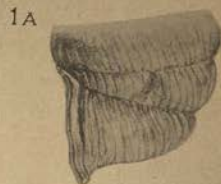


PLATE LXVI.

[Part VII.—*October* 1897.].

Fig. 1.	DIPLOMMATINA UNICRENATA, G.-A., × 7.	Eastern Naga Hills.
2.	— ANIMULA, G.-A., × 12.	Lahupa Naga Hills.
3, 3 a.	— SUBRUBELLA, G.-A., × 7.	Japvo Peak, Naga Hills.
4.	— SUBTILIS, G.-A., × 12.	Margarita, Assam.
4 a.	— —, × 7.	
5.	— DELICATA, G.-A., × 12.	Eastern Naga Hills.
6.	— MUNIFURENSIS, G.-A., × 12.	North Munipur Hills.
7.	— VENUSTULA, G.-A., × 7.	Japvo Peak.
7 a.	— —, × 12 ; side view.	
8.	— DOMUNCULA, G.-A., × 7.	Margarita, Assam.
9.	— SUCCINEA, G.-A., × 12.	Anghami Naga Hills.
10.	— CONCINNA, G.-A., × 12.	Naga Hills.
11, 11 a.	— JAPVOENSIS, G.-A., × 7.	Japvo Peak, Anghami Naga Hills.
12, 12 a.	— GIBBEROSA, G.-A., × 12.	North Munipur Hills.
12 b, 12 c.	— —, × 7.	

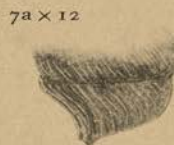


PLATE LXVII.

[Part VII.—October 1897.]

Fig. 1. *OTOPOMA NATICOIDES*, Récluz, ♀, × 1·2.

Socotra.

1 *a.* ———: removed from shell, right side.

1 *b.* ———: viewed from front, showing divided foot, × 2·6.

2. ———: branchial chamber with side removed, showing position of the male organ and rectum, × 1·4.

2 *a.* ———: the same parts further enlarged, showing the anal aperture, × 4·5.

2 *b.* ———: the lower side of male organ, showing the sperm-opening.

3. ———, ♀: showing the anal aperture and position of female orifice (*f.or.*).

4. ———: part of radula, × 58.

4 *a.* ———: first tooth on right side, × 163.

4 *b.* ———: second and third tooth on right side, × 163.

5. ———: buccal mass viewed from left side, × 4·5.

5 *a.* ———: buccal mass viewed from below, showing the salivary glands.

6. ——— *CLATHRATULUM*, Récluz, var. *MINOR*, G.-A., × 4·5.

Socotra.

Animal from spirit-specimen, right side view, showing the position of the penis.

P., penis; *An.*, anus; *o.*, operculum; *An.or.*, anal orifice; *f.or.*, female orifice; *t.*, tentacula; *P.ap.*, penis aperture; *r.m.*, retractor muscle; *sal.gld.*, salivary gland.

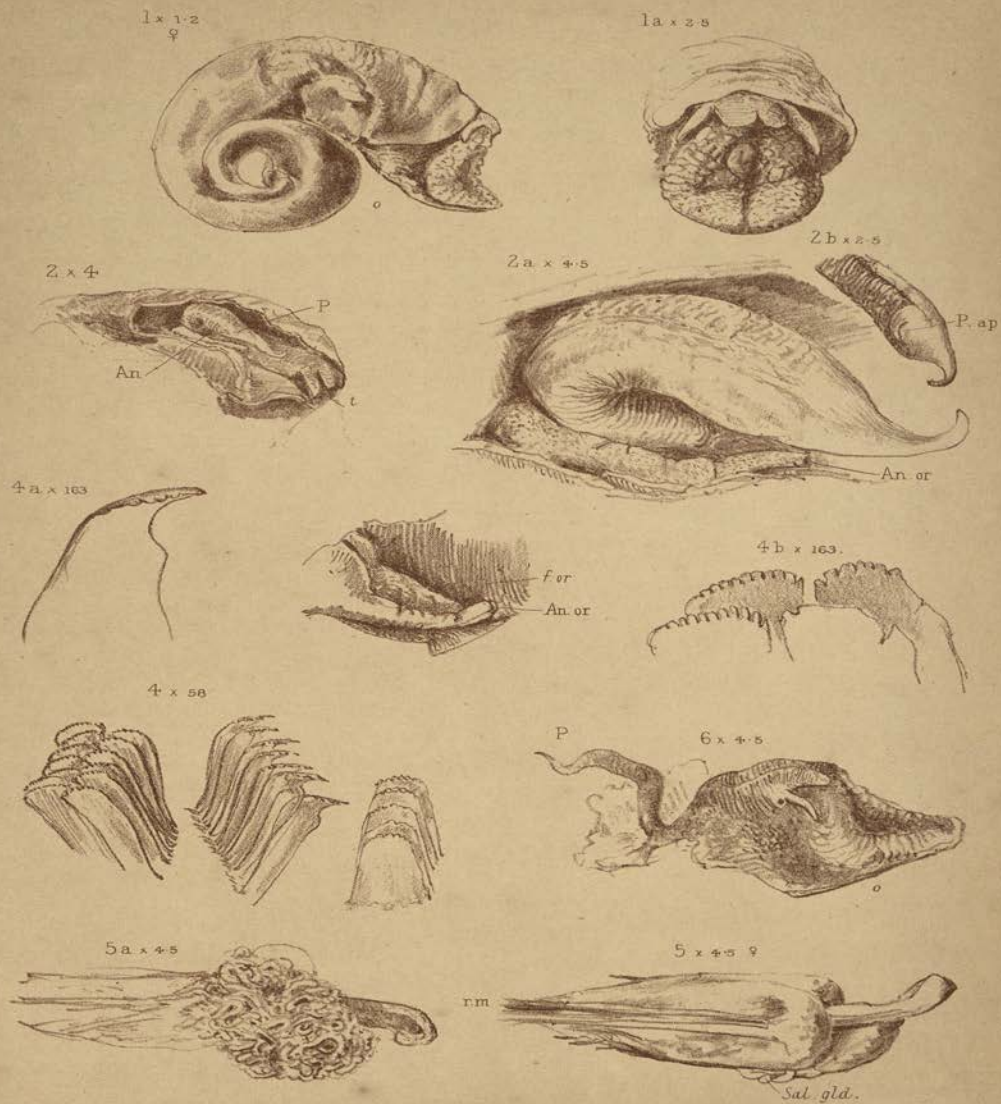


PLATE LXVIII.

[Part VII.—October 1897.]

CYCLOPHORUS (NATALIA) WAHLBERGI, Benson. Natal.

Fig. 1. Animal viewed from right side, ♂, × 4.

- 1 a. Ditto, view from front and above, showing position of the male organ and anal orifice, × 4.
- 1 b. Ditto, front view of head, showing form of mouth, × 4.
- 1 c. Ditto, scar of the operculum, × 4.
- 1 d. Ditto, free end of the male organ, as seen on slide with transmitted light, × 12.4.
- 2. Operculum, exterior side, × 2.5.
- 2 a. Ditto, side view, posterior side to right hand, × 2.5.
- 3. Buccal plates, × 8. *p.*, posterior side; *a.r.*, anterior right side.
- 3 a. Buccal portion showing the platelets, × 275.
- 3 b. Buccal portion near the central edge, where the rows of platelets are given off, × 275.
- 4. Radula, × 168.
- 4 a. Ditto, × 168.

CYCLOPHORUS (CYCLOHELIX) CROCATUS, Born. Andaman Islands.

- 5. Animal, right side, showing position of the penis, × 4.
- 5 a. Ditto, from left side, × 4.
- 5 b. The scar of the removed operculum, × 4.
- 6. Operculum, exterior side, × 2.5.
- 6 a. Ditto, side view, inner side to right, × 4.
- 7. Buccal mass and salivary glands, × 4.
- 8. Radula, × 58.

o., operculum; *P.*, male organ; *An.ap.*, anal aperture; *t.*, tentacula; *l.t.*, left tentaculum;
b.P., base of male organ; *r.m.*, retractor muscle; *sal.gld.*, salivary gland.



PLATE LXIX.

[Part VII.—October 1897.]

Fig. 1, 1 a.	PUPINA ARULA, Bs., from type in Benson collection, Cambridge, $\times 4$.	Burmah.
2, 2 a, 2 b.	—— BLANFORDI, Theob., from supposed type in British Museum, $\times 8$.	Burmah.
3, 3 a, 3 b, 3 c.	—— PEGUENSIS, Bs., $\times 4$.	Kamah, Pegu
3 d.	—— —, operculum, $\times 12\cdot4$; under side, $\times 12\cdot4$.	
4, 4 a, 4 b.	—— LIMITANEUS, G.-A.	Eastern Shan Plateau.
5, 5 a.	—— TONGUPENSIS, G.-A., $\times 8$.	Arakan Hills.
6, 6 a.	—— ARTATA, $\times 8$.	Moulmain.
6 b.	—— —, another specimen, viewed from left side, $\times 8$.	Moulmain.
7.	—— HUNGERFORDI, $\times 4$.	Hsaddenkoo, Tenasserim.
7 a.	—— —, aperture, $\times 8$.	
8.	—— NICOBARICA, $\times 8$.	Andaman.



PLATE LXX.

[Part VIII.—January 1898.]

- Fig. 1. *CRYPTOSOMA INUSITATUM*, G.-A., $\times 1.5$. Eastern Burmah.
1 *a*. Ditto, nat. size.
2. *CRYPTOSOMA PRÆSTANS*, Gould, $\times 1.5$. Moulmain.
2 *a*. Ditto, nat. size.
3. *CRYPTOSOMA INUSITATUM*, view of part of left side, $\times 1.5$.
4. Ditto: the buccal mass from left side, $\times 4.5$.
5. Ditto: jaw, $\times 8$.
6. Ditto: central teeth of odontopore; 6 *a*, 17th to 23rd median; 6 *b*, the outermost laterals, $\times 196$.
7. Ditto: generative organs, $\times 4.5$. Lettering as in former Plates.
7 *a*. The albumen-gland and part of hermaphrodite duct, $\times 4.5$.
7 *b*. The amatorial organ, $\times 2.5$.
7 *c*. Ditto, with fleshy dart more exposed, $\times 4.5$.
8. A spermatophore, $\times 4.5$.

h.d., hemaphrodite duct; *r.m.*, retractor muscle; *D.*, dart or amatorial organ;
sp., spermatheca; *v.d.*, vas deferens; *P.*, male organ.

1 x 1.5

1a (nat size)

PLATE LXX.

2a (nat size)

2 x 1.5

4 x 4.5

3 x 1.5

5 x 8

7a x 4.5

6 x 196

6a x 196

6b x 196

8 x 4.5

7b x 2.5

7c x 2.5

r m

D

Sp

P

PLATE LXXI.

[Part VIII.—*January* 1898.]

- Fig. 1. CRYPTOSOMA SIAMENSE, Halmes, $\times 1.5$. Siam.
- 1 *a*. Ditto, nat. size.
 - 2. View of part of left side, showing the left dorsal and shell-lobes, $\times 1.5$.
 - 2 *a*. Posterior side, foot.
 - 3. Jaw, $\times 8$.
 - 4. Central teeth of odontophore, $\times 368$.
 - 4 *a*. 18th, 19th, and 20th median, $\times 368$.
 - 4 *b*. 20th, 21st, 22nd, and 23rd median, $\times 368$.
 - 4 *c*. Outermost teeth, $\times 368$.
 - 5. Generative organs, $\times 4.5$.
 - 5 *a*. The male organ, $\times 8$.

1 x 15



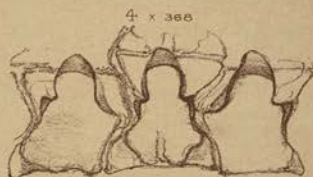
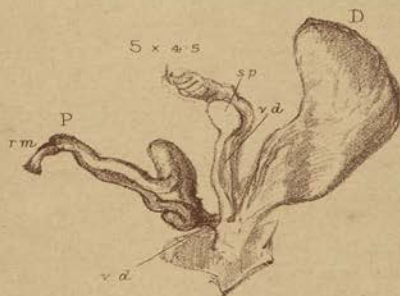
1a (nat size)



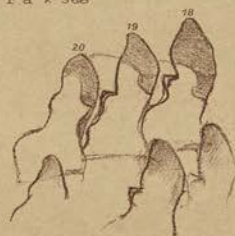
2a x 15



2 x 15



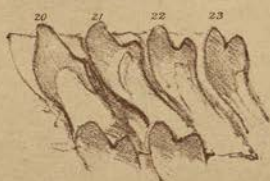
4 a x 368



3 x 8



4b x 368



4 c x 368



5 a x 8



PLATE LXXII.

[Part VIII. — *January* 1898.]

CRYPTOSOMA IMPERATOR, Gould. Hongkong. —

Fig. 1. Shell, $\times 1.5$.

1 *a*. Shell and animal, nat. size (spirit-specimen), viewed from right side.

1 *b*. Ditto, viewed from left side.

2. Animal with shell removed, viewed from right side, $\times 4.5$.

2 *a*. Ditto, viewed from the posterior side, $\times 4.5$.

2 *b*. View showing left shell and neck-lobes, $\times 4.5$.

2 *c*. Mucous gland from posterior side, $\times 4.5$.

3. Buccal mass, $\times 4.5$.

4. Jaw, $\times 4.5$.

5. Central teeth of odontophore, $\times 196$.

5 *a*. Median teeth, 11th to 16th, $\times 368$.

5 *b*. Outer lateral teeth, $\times 196$.

6. Generative organs, $\times 4.5$.

6 *a*. The male organ, $\times 12.4$. *x*, the side of the muscular sheath is here broken.

1d x (nat. size)



1 x 1.5



1b (nat. size)



3 x 4.5



2a x 4.5



2c x 4.5



4 x 4.5



2 x 4.5



5a x 198



5b x 198



2b x 4.5



5 x 198



6 x 4.5



6a x 12.4



PLATE LXXIII.

[Part VIII.—*January* 1898.]

DAMAYANTIA SMITHI, Collinge & Godwin-Austen. Borneo.

- Fig. 1. Animal, from right side (from spirit-specimen), $\times 2.5$.
- 1 *a*. Ditto, from above, $\times 2.5$.
 - 1 *b*. Ditto, from left side, $\times 2.5$.
 - 2. Shell, $\times 2.5$.
 - 3. The visceral sac, shell removed, exposed, seen from above, showing single coil, $\times 2.5$.
 - 4. Extremity of foot, showing mucous gland, $\times 8$.
 - 5. Jaw, $\times 12$.
 - 6. Central teeth of radula, $\times 368$.
 - 7. Generative organs (*sp.am.*), $\times 4$.
 - 7 *a*. Ovo-testes and hermaphrodite duct, $\times 8$.
 - 7 *b*. Portion of male organ, $\times 8$.
 - 7 *c*. Ditto, another view, $\times 8$.
 - 7 *d*. The calcareous dart in the amatorial organ, $\times 8$.

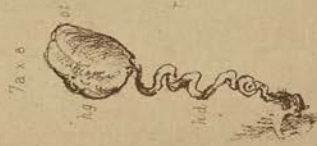
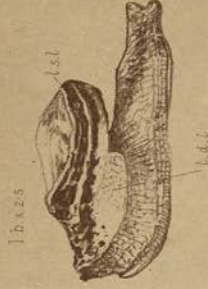


PLATE LXXIV.

[Part VIII.—*January 1898.*]

MICROPARMARION SIMROTHI, Collinge & Godwin-Austen. Borneo.

Fig. 1. Shell and part of mantle from above, $\times 3$.

1 *a*. As seen from left side, $\times 3$.

1 *b*. Head and fore portion of body and mantle, right side, $\times 4$.

2. View of right side of animal, shell removed, $\times 4$.

3. Portion of oesophagus, with salivary gland, $\times 4$.

4. Jaw, $\times 4$.

5. Generative organs, $\times 4$.

5 *a*. Male organ, $\times 8$.

5 *b*. The calcareous dart in the amatorial organ, $\times 12.5$.

6. Generative organs of *PARMARION PUPILLARIS*, after Semper.

6 *a*. Calcareous dart (the "Liebesfeil"), after Semper.

6 *b*. Teeth of radula, after Semper.

1 x 3



2 x 4



1 b x 4



1 a x 3



3 x 4



5 a x 8



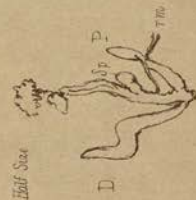
6 b



6 a



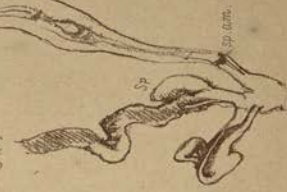
6 Half Size



4



5 x 4



5 b x 12 x 3



PLATE LXXV.

[Part VIII.—*January* 1898.]

MICROPARMARION POLLONERAI, Collinge & Godwin-Austen. Borneo.

- Fig. 1. Animal, from above (spirit-specimen), $\times 2\cdot4$.
2. Ditto, right side, $\times 2\cdot4$.
3. Mucous gland, $\times 4\cdot6$.
4. Posterior end of visceral mass, shell removed, $\times 8$.
5. Buccal mass and salivary glands, $\times 8$.
6. Jaw, $\times 12$.
6 *a*. Central teeth of radula, $\times 368$.
6 *b*. Lateral teeth of radula, $\times 368$.
7. Generative organs, $\times 4$.
7 *a*. Male organ, with kalk-sac, $\times 4$.
7 *b*. Ditto, muscular sac cut open.
7 *c*. Interior of kalk-sac, showing the papillate surface, $\times 8$.
7 *d*. The calcareous dart of the amatorial organ, $\times 8$.

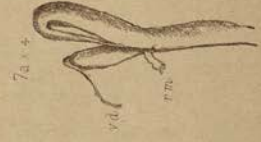
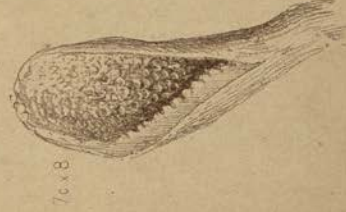


PLATE LXXVI.

[Part VIII.—*January* 1898.]

DURGELLA LEVICULA, Benson. Tenasserim.

Fig. 1, 1 *a*, 1 *b*. Shell, $\times 4$.

2. Animal, seen from right side (from spirit-specimen).

2 *a*. Ditto, from left side, much enlarged.

2 *b*. Extremity of foot, as in life.

3. Buccal mass, from right side.

4. Jaw, $\times 58$.

5. Centre tooth of the radula, with two laterals, very much enlarged.

5 *a*. Lateral teeth.

6. Generative organs, $\times 8$.

6 *a*. The male organ, showing muscular dart, $\times 12\cdot4$.

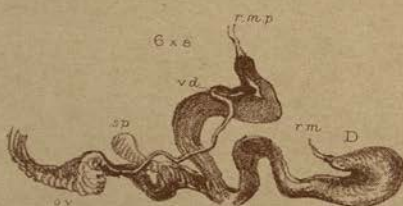


PLATE LXXVII.

[Part VIII.—*January* 1898.]

- Fig. 1. DURGELLA ASSAMICA, G.-A.: shell, $\times 4$. Durrang District, Assam.
2. Ditto: portion of side of foot, much enlarged.
3. Ditto: shell and dorsal lobes detached.
4. Ditto: jaw, $\times 30$.
5. Ditto: lateral teeth.
- 5 a. Ditto: lateral teeth, much enlarged.
6. Ditto: generative organs. Lettering as in other Plates.
- 7, 7 a. DURGELLA MAIRANGENSIS, G.-A., $\times 4$. Khasi Hills.
- 7 b, 7 c. Ditto, $\times 2\cdot4$.
8. Ditto: extremity of foot.
9. Ditto: jaw, $\times 12\cdot4$.
10. Ditto: central tooth and side teeth, enlarged.
- 10 a. Ditto: outermost laterals, $\times 368$.
- 10 b. Ditto: five laterals, very much enlarged.
11. Ditto: generative organs, portion of, $\times 12\cdot4$.

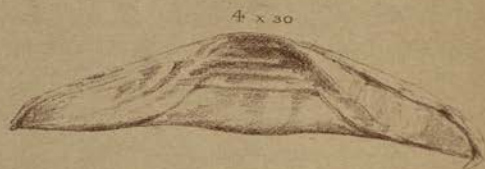
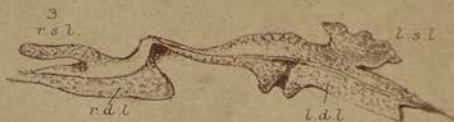


PLATE LXXVIII.

[Part VIII.—*January 1898.*]

DURGELLA DEKHANENSIS, Godwin-Austen. South India.

- Fig. 1. Shell, $\times 2.5$.
2. Animal and shell (spirit-specimen), showing shell-lobes, $\times 1.5$.
2 a. Ditto, part of, from the left side, $\times 1.5$.
2 b. Extremity of foot, showing mucous pore, $\times 8$.
2 c. Portion of sole of foot, $\times 8$.
2 d. Mantle-lobes detached: *r.s.l.*, right shell-lobe &c.

DURGELLA DEKHANENSIS, var. BICOLOR.

- Fig. 3. Animal and shell, $\times 1.4$.
4. Jaw, $\times 24$.
5. Generative organs, $\times 4$.

DURGELLA LEVIDENSIS, Godwin-Austen. Travancore.

- Fig. 6. Animal, viewed from the right side (spirit-specimen), $\times 4$.
7. Generative organs, $\times 4$.
7 a. Male organ, opened out on side, $\times 4$.
7 b. Ditto, end of, enlarged, side view.
8. Four lateral teeth of odontophore, very much enlarged.
8 a. The central tooth and outer laterals, $\times 368$.
9. The buccal mass, $\times 4$.



H. H. Godwin-Austen, del et lith.

DURGELLA.

Maclure & Co Imp

PLATE LXXIX.

[Part VIII.—*January 1898.*]

- Fig. 1. DURGELLA CHRISTIANÆ, Theobald : shell, $\times 4$. Andaman Islands.
2. Ditto : animal viewed from right side (from spirit-specimen).
3. Ditto : jaw, $\times 12\cdot4$.
4. Ditto : central tooth and adjacent teeth, much magnified.
- 4 a, 4 b. Ditto : laterals, very much enlarged.
5. Ditto : generative organs ; ? the probable position of the retractor muscle of the penis.
- 6, 6 a. DURGELLA ? SUMBAENSIS, G.-A. : shell, $\times 4$. Sumba or Sumbawa.
- 6 b. Ditto : animal after soaking in water, showing the right shell-lobe, $\times 4$.
7. Ditto : jaw, $\times 30$.
8. Ditto : central tooth and five median teeth.
- 8 a. Ditto : lateral teeth, very much enlarged.
- 8 b. Ditto : the outer laterals, very much enlarged.
9. DURGELLA HOSEI, G.-A. : central tooth and adjacent laterals. Borneo.
10. DURGELLA DEKHANENSIS, G.-A. : extremity of foot, showing a supernumerary overhanging lobe to mucous gland, $\times 4$. South India.



